

**Spot-Check Monitor Data Manager**

# **User Manual**

## **Introductions to User**

Dear Users,

Thank you very much for purchasing our Spot-Check Monitor series products. This manual is intended to assist the user in uploading data from Spot-Check Monitor to PC in a safe and effective manner. Please read this manual carefully before running the system, and follow it to operate.

The Manual is published in English and we have the ultimate right to explain the Manual. No part of this manual may be photocopied or modified without the prior written consent. We reserve the right to improve and amend it at any time without prior notice.

This “Spot-Check Monitor Data Manager” is an application software running on a personal computer with Microsoft Windows operating system, so the user should be acquainted with some knowledge to operate computer.

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### **Information for Operation**

- Please make sure the well connection of the data cable between PC and Spot-Check Monitor before uploading data, do not pull out the data cable casually during the data upload.
  - Data transmission may be interrupted during uploading the data in case of low battery voltage for Spot-Check monitor.
  - Do not operate the on Spot-Check Monitor during the data uploading.
  - While installing printer driver on PC, please quit “Spot-Check Monitor Data Manager” software firstly if it's running.
- 

### **Notes:**

- 1. Connect/Disconnect the data cable to Spot-Check Monitor gently and carefully, do not bring or shake the data cable plug with force to insert into or unplug from data interface port.
- 2. Before updating the software “Spot-Check Monitor Data Manager”, it's no need to uninstall the previous version. If you want to uninstall, then you need to manually delete all the files in the installation folder (the default is “C: \Spot-Check Monitor Data Manager\”).

For example: “Spot-Check Monitor Data Manager” is installed under the file folder of “C:\Spot-Check Monitor Data Manager”. At first, uninstall the “Spot-Check Monitor Data Manager” software from “Control Panel → Add/Uninstall Programs”, and then manually delete the all files under the directory “C:\Spot-Check Monitor Data Manager”. Next, install the new version of “Spot-Check Monitor Data Manager”.

- 3. If the Spot-Check Monitor has wireless transmission function, the real time data can be also transmitted by using the "Real Time Data" selection in the software while uploading data. The real time data will be stored in PC with the time stamp based on the calendar time on PC, please make sure the correct time is set before real time data transmission.
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# 1 Overview

## 1.1 Features

The data (including blood pressure, SpO<sub>2</sub>, pulse rate, temperature and blood glucose) stored in the Spot-Check Monitor can be uploaded to PC through USB data cable by this “Spot-Check Monitor Data Manager” software. By using this software, the user can backup, review and analyze the uploaded data conveniently.

## 1.2 Prerequisite


### Computer Hardware Requirement:

PC with Intel Pentium III CPU, 800MHz speed or higher; 256MB or higher memory; CD-ROM drive; at least 1GB space available in the hard disk to install “Spot-Check Monitor Data Manager” software.

### Requirement for Operating System:

Microsoft Windows XP, Windows 2000, Windows 7, Windows 8 or Windows Vista.

## 1.3 Procedure of Data Uploading

1. Install "Spot-Check Monitor Data Manager" software and "USB Driver".
2. Set the resolution of screen display as "1024×768" pixel or higher.
3. Connecting the Spot-Check monitor to PC with the data cable provided. ( As shown in the figure 2-9);
4. Power on the Spot-Check Monitor.
5. Double-click the icon “” on desktop to start running “Spot-Check Monitor Data Manager” Software and click “File” (button for user info) on the main menu screen to add a new patient account.
6. Click “Upload” (button for data import) on the main menu to preview the records to be uploaded, select the record(s) needed to upload, click the “review” button to recall and review the stored data.

**Notes: More information about the operation refers to the following sections in details.**

## 2 Installation, Connection and Settings

### 2.1 Installation of Spot-Check Monitor Data Manager

Insert the CD-ROM which contains the installation software into CD-ROM drive, the software installation will be automatically running or directly running the program "setup.exe" in the root directory of CD-ROM drive, then the window of "Spot-Check Monitor Data Manager Setup" will be prompted on the screen as shown in Figure 2-1.

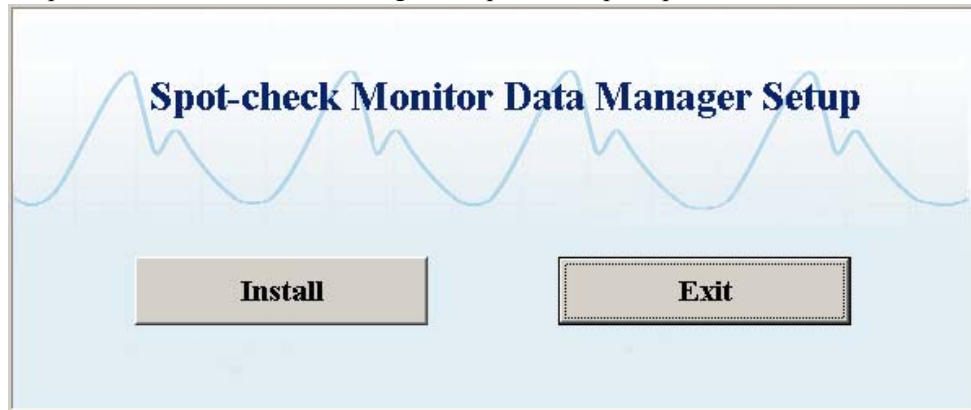


Figure 2-1 Spot-Check Monitor Data Manager Setup Screen

On Spot-check Monitor Data Manager setup screen, it's unnecessary to select language (different from the previous version) because the installing program will use the language same as the current operating system language to complete the installation. The initializing screen is as shown in figure 2.2.

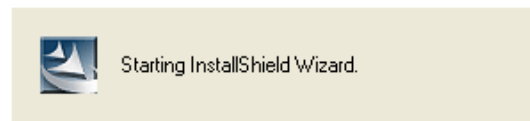


Figure 2.2

Please follow the instruction or prompts of the installation of Spot-Check Monitor Data Manager, as shown in figure 2-2—figure 2-6; When clicking the "Finish" button to finish the installation of Spot-Check Monitor Data Manager, the USB driver installation will run subsequently.

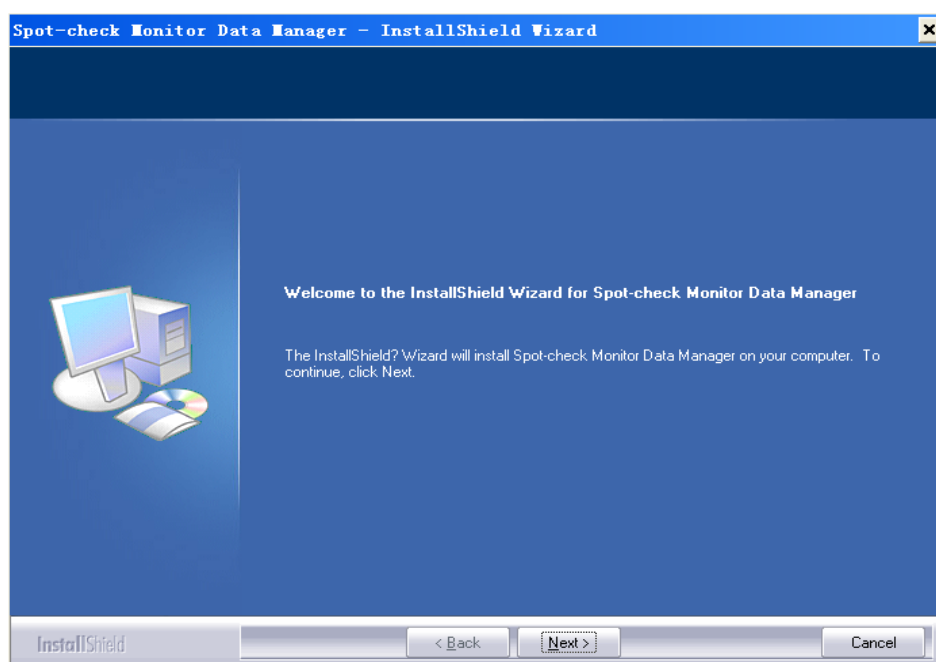


Figure 2.3

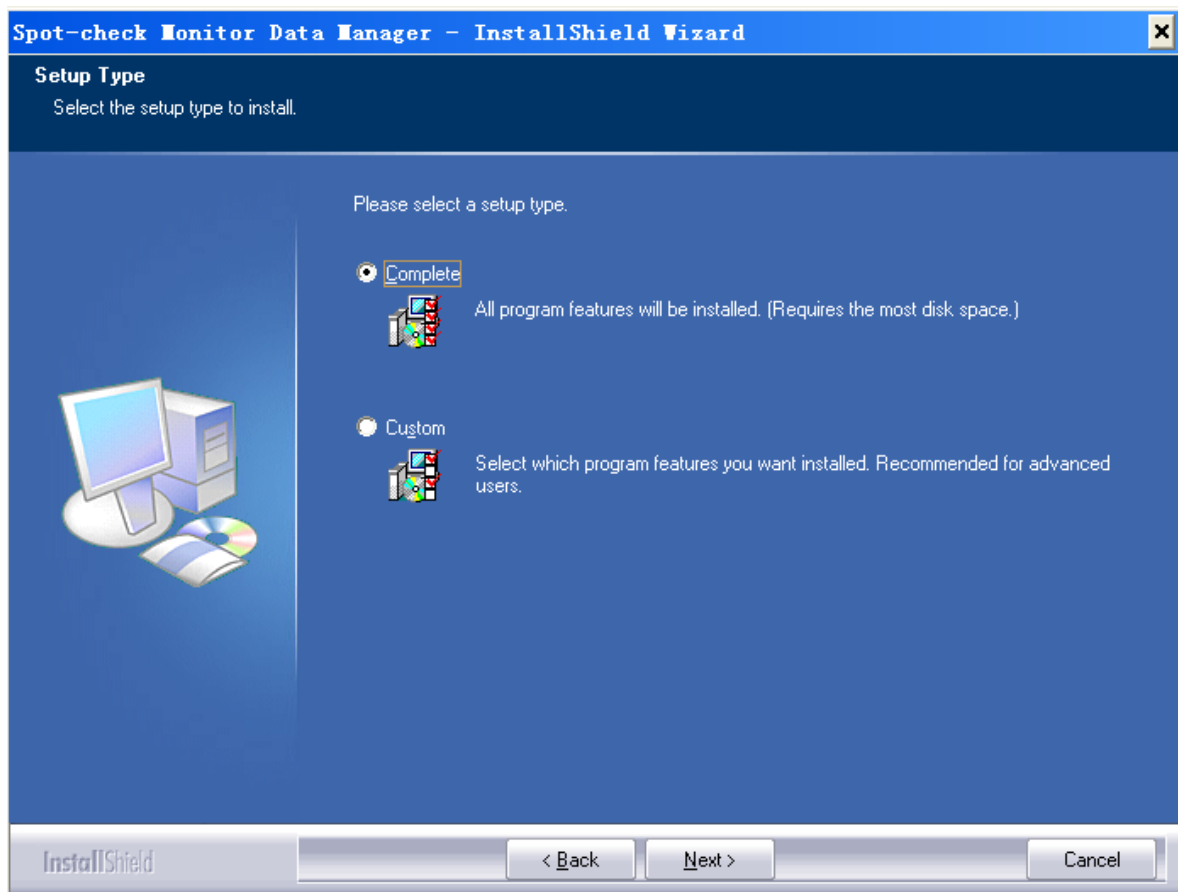


Figure 2-4

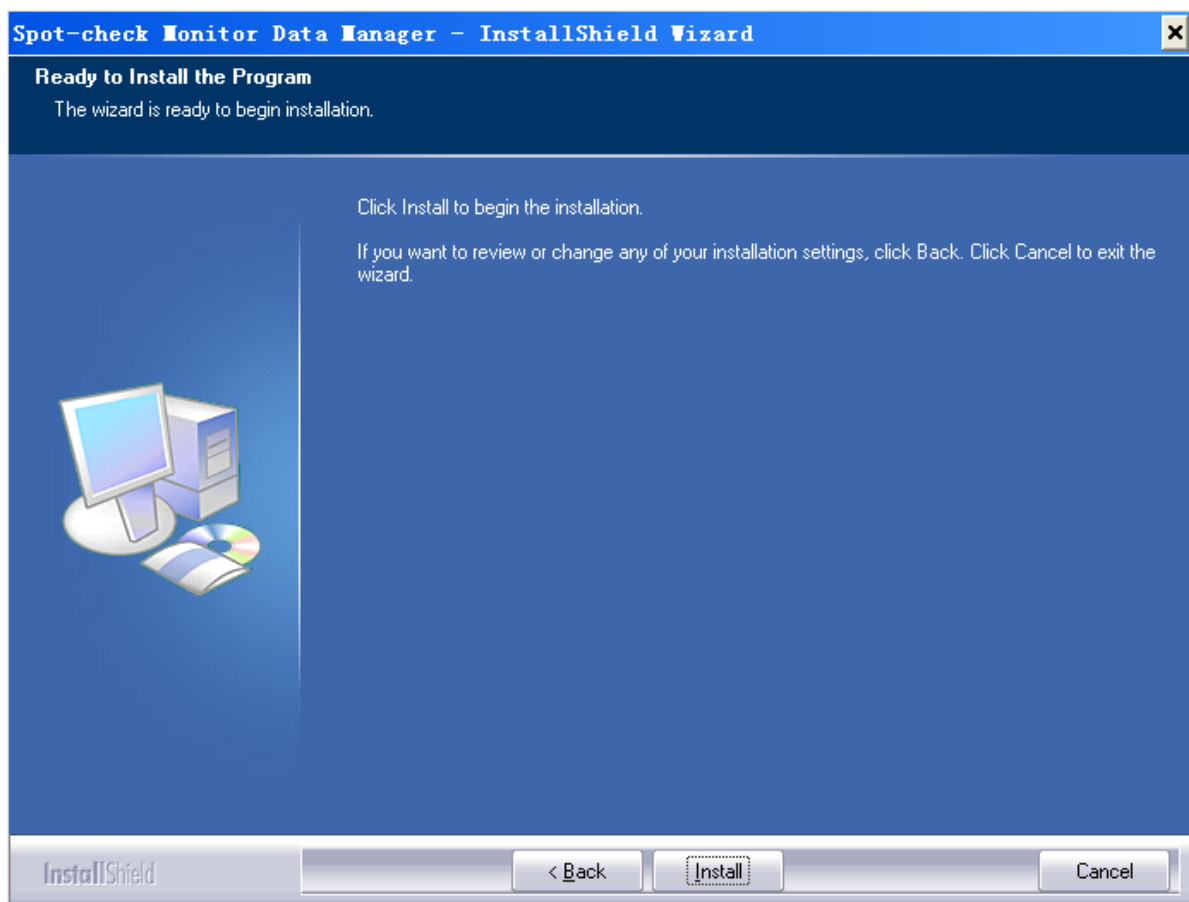


Figure 2-5

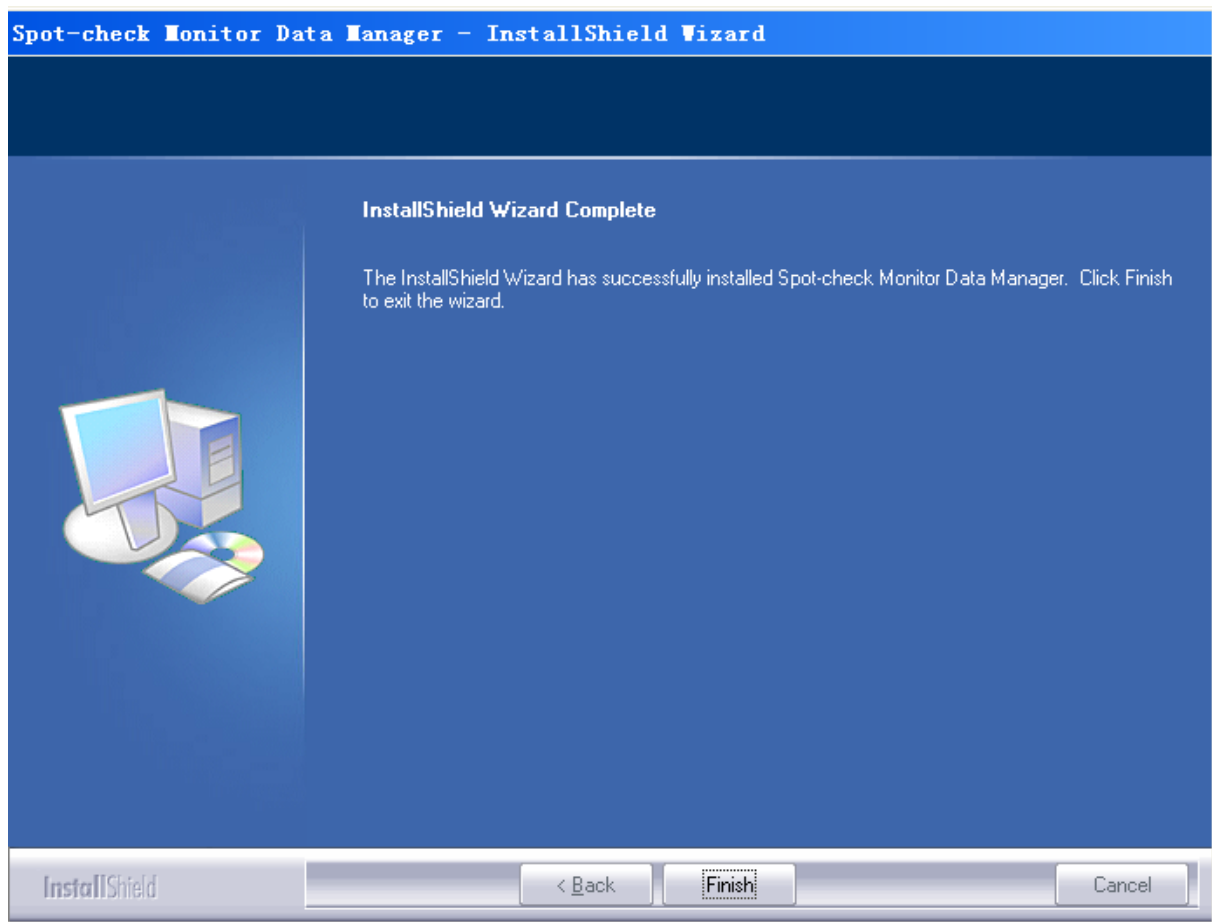


Figure 2-6

Click on "Finish" button to complete the installation.

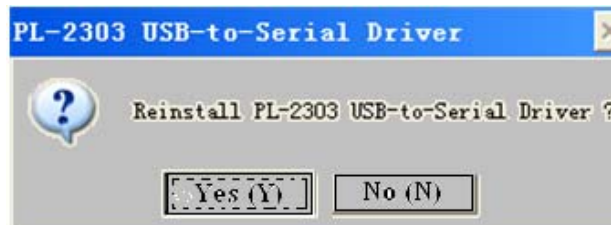


Figure 2-7

If this USB-to-Serial driver has been already installed in this computer, it prompts message "Reinstall PL-2303 USB-to-Serial Driver?", as shown in figure 2-7. If you need to reinstall it, please click "(Yes)Y"; If there is no need to reinstall, click "No (N)" to exit from the USB driver installation.

## 2.2 PC Setting

### 1. Setting Display Properties

On desktop screen of Windows operating system, click the right button of the mouse, it will bring up a quick menu, then move the cursor to select "Properties". Choose "Settings" on the "Display Properties" window, then set the "Screen resolution" option as "1024 by 768 pixels", and set the "Color quality" option as 16bit or higher, as shown in Figure 2-8.



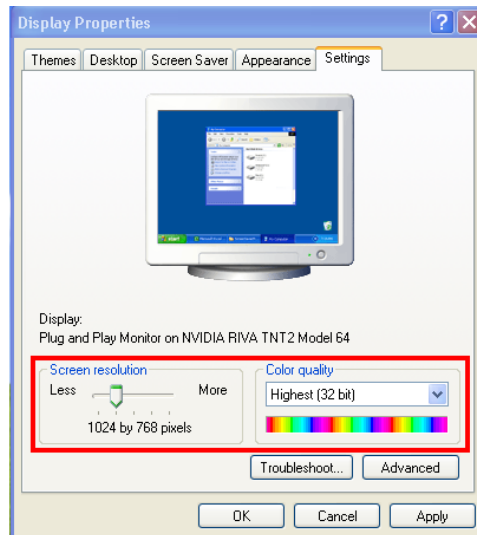


Figure 2-8 Display Properties Setup

## 2.3 Device Connection

After “Spot-Check Monitor Data Manager” software is installed, refer to Figure 2-9 to perform cable connection:

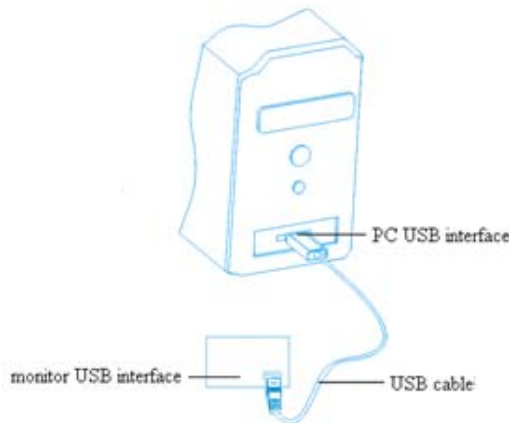


Figure 2-9

**Note:** connect the device at first time, the system prompts that "Found New Hardware Your new hardware is installed and ready to use. " on the right side of task bar, as shown in Figure 2-10, it means that USB Driver is installed successfully.

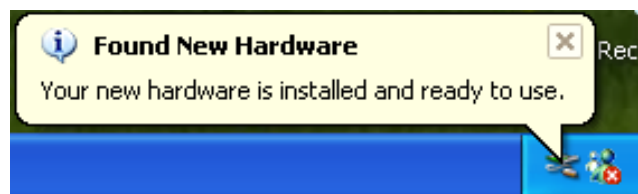


Figure 2-10

If real time data transmission by wireless is used, please set the "Wireless" function to "On" in the Spot-Check Monitor, and plug the provided wireless adapter to the PC, then " " prompts on the right side of task bar. If wireless connection is setup successful, " " icon appears on the right side of task bar, as shown in figure 2.11.

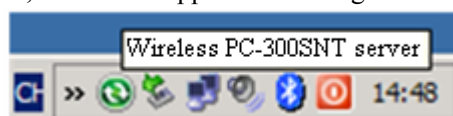


Figure 2.11


Note: when message "Allow the device connecting" and "Found new hardware" appear, no intervention should be done for wireless connection, because the wireless device will be searched and matched automatically.

## 2.4 Spot-Check Monitor Setting

Please power on the Spot-Check Monitor before uploading data or real time data transmission.

## 3 Operations

### 3.1 Main Menu

Double-click the icon “” of “Spot-Check Monitor Data Manager” on the desktop with the Mouse, then Spot-Check Monitor Data Manager will run automatically and pops up the main menu screen, as shown in Figure 3-1.

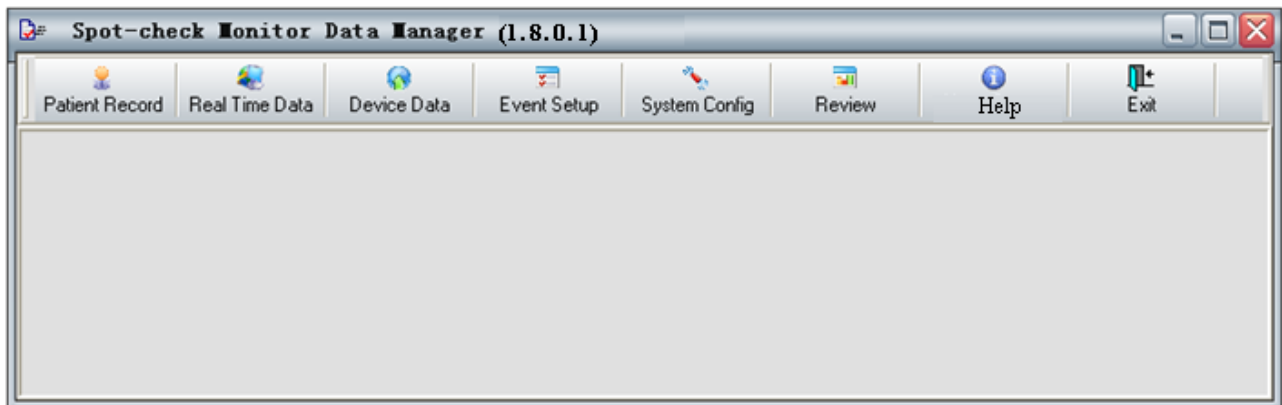


Figure 3-1 Main Menu

Tool bar is as shown in below figure 3.2:



Figure 3.2 Tool bar

#### ❖ Description of tool bar:

Function name	Function description
Patient Record	Perform patient information management, patient account can be created, modified and deleted.
Real Time Data	Perform real time data transmission by wireless communication.
Device Data	Upload the stored data to PC through the provided USB data cable.
Event Setup	Setup the event parameters.
System Config	Setup and configure the system parameter, and select language.
Review	For browsing and recalling the history records, and Review the data and trend stored in the monitor.
Help	1. Online update: click it to update the software to the latest version 2. User manual: click this button, then the User Manual for this Spot-Check Monitor Data Manager pops up. 3. USB-to-Serial Driver: click it to install the USB-to-Serial Driver

	4. About system: view software information (including software version, disk space and so on.)
Exit	Exit from the system.

## 3.2 Patient Record

On main menu screen click on "Patient Record" button, then pops up Patent Record window on the desk, as shown in figure 3.3.

Figure 3.3 Patient Record

### Description:

On patient record window, adding new account, modifying and deleting account can be performed. On the left screen is name list, on the right of screen is detailed information of the selected account, personal data can be entered in this area.

✧ **Last Name:** display or enter user's last name; length of name is less than 30 ASCII characters.

**First Name:** display or enter user's first name; length of name is less than 30 ASCII characters.

✧ **ID Number:** Identification number; display or enter ID number; length of ID is less than 30 characters.

✧ **Sex:** Choose Male/Female in submenu "▼".

✧ **Birthday:** display or enter patient's birthday. Choose Year/Month/Day in submenu "▼" or enter through keyboard.

✧ **Telephone:** Display or enter User's telephone number.

✧ **Height:** User's height; display or enter user's height. Please enter Arabic numerals.

✧ **Weight:** User's weight; display or enter user's weight. Please enter Arabic numerals.

✧ **Address:** display or enter the patient's address, length of the address is less than 80 bytes.

✧ **Allergies:** the patient's allergic symptom description of patient after using the monitor. If no allergies appear, please enter "No", length of description is less than 100 bytes.

✧ **Comments:** Display or enter the contents of the note; the length of the contents is less than 160 bytes or 80 characters.

**Functional button:**

✧ **Add:** new file setup button. If user needs to add a new file, please click this button and enter the patient's detailed data in blank, click "Save" to confirm the information.

✧ **Delete:** delete the selected archive.

✧ **Save:** confirm or save the modified information.

✧ **Exit:** exit from Patient Record screen.

Note: 1) ID number and Name in an existing account can not be modified.

2) ID number and Name are required items to be filled out when adding a new patient account.

### 3.3 Real Time Data

**Attention:**

For real time data transmission, the time stamp of data record is created according to the host device (computer), therefore, please set the correct date and time in the computer at first if necessary. Besides, before real time data transmission, the power properties of the computer should be set as: "never shutting down hard disk, never entering standby state, and never entering sleep state".

For some models of Spot-Check Monitor, when performing real time transmission, the time setting at device side will be synchronized with the computer setting time firstly, that means, the time on device will be the same as that on computer.

**Operating procedure:**

1. On main screen, when connecting with wireless device and clicking "Real Time Data" button, then the screen pops up "Select A User" dialog, as shown in figure 3.4. If there is no patient account, click "New entry" button to add a new patient account. Refer to chapter 3.2 for details.

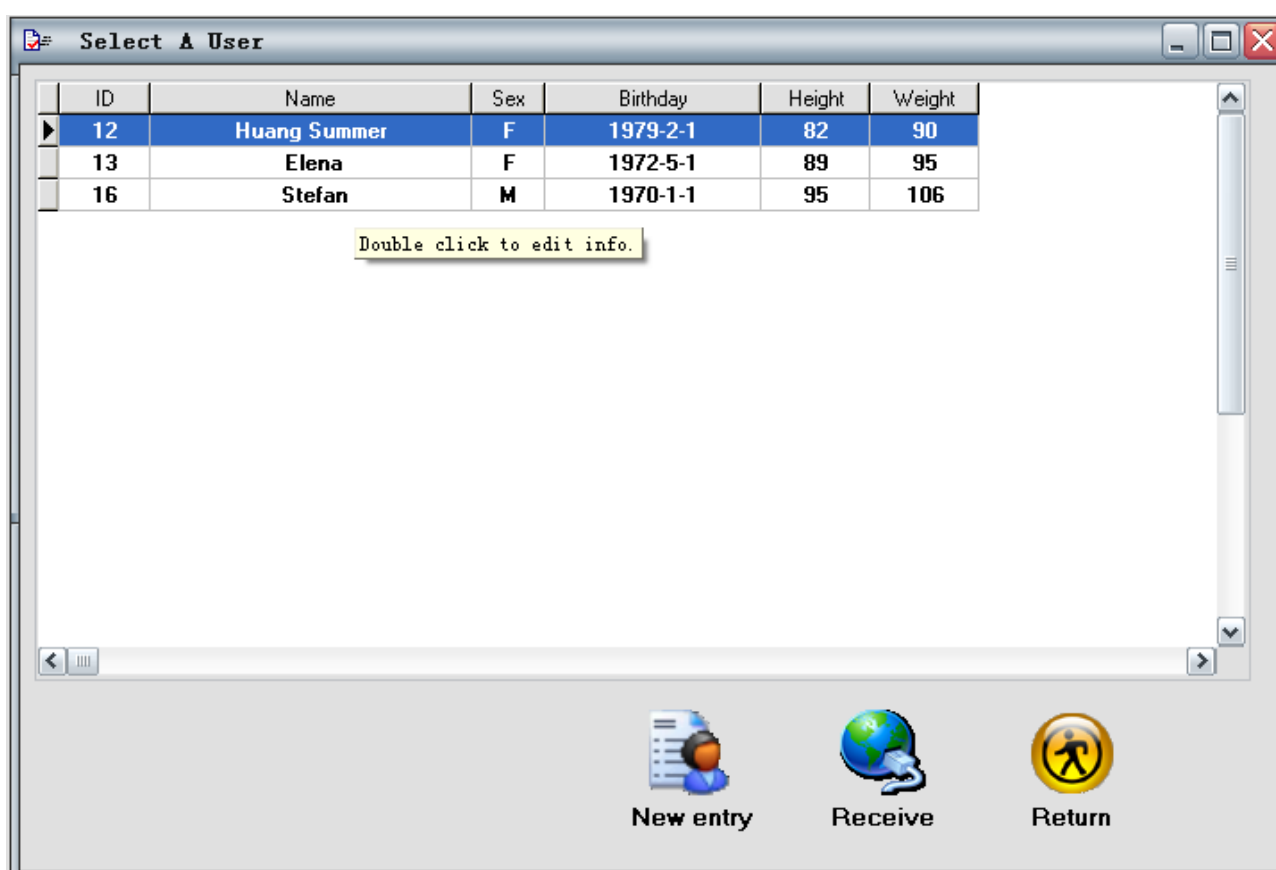


Figure 3.4 Real time data transmission screen


Figure 3.5A Real time SpO<sub>2</sub> data receiving

2. Select a patient account and click "Receive" button, then data receiving window displays on screen, where shows the real time receiving data from device, including blood pressure, SpO<sub>2</sub>, temperature, ECG and blood

glucose, as shown in figure 3.5A or 3.5B, and all parameter will be displayed on the corresponding area. During the real time receiving, if probe off or fail connection happens, the corresponding message such as "Lead off", "Probe off" or "Fail connection" will be displayed. The "Data Manager" software will save the received 30 seconds segment of ECG waveform data including the measurement result into the database under the given patient account consecutively; in addition, other real-time received parameter data will be saved as well. Click "Review" to review the record.


### Operation Description:



In figure 3.5, using mouse to drag the cursor line on the graphic trend, then the corresponding data value at this specific time instant will appear on the screen. It is convenient for user to view the recently received data.


In figure 3.5A, locate the cursor on NIBP data area on upper right corner, then a set icon "" appears, clicking this icon can start/cancel "static pressure verification" function for Spot-Check Monitor. Note: this function is only applicable for the device with the optional function of "static pressure verification", and it is for the professional maintenance exclusive use.


### Functional buttons:


" **Plethysmogram**": choose Plethysmogram, the SpO<sub>2</sub> waveform will be displayed in plethysmogram.


" **Default**": choose Default, the color foreground and background will be default color.

"**Time Scale** : ": click on  to choose time scale for graphic trend, 6 options: 5min, 10min, 15min, 30min, 1h and 2h.

"" : on the real time graphic trend area, you can see a red vertical cursor line, click and drag it to other location by mouse, then the corresponding parameter value at that location will be displayed on the right side. For example, click the cursor line on SpO<sub>2</sub> graphic trend area, the SpO<sub>2</sub> value and PR value at the cursor location will be displayed, as shown in figure 3.6.

"" : on the left corner of blood pressure data area, click it to activate the blood pressure measurement at the device side, for example, PC-300 series of Spot-Check Monitor.

"" : on the left corner of blood pressure data area, click it to cancel the blood pressure measurement at device side.

"" : click it to display or hide the waveform of ECG signal, as shown in figure 3.6.

"**{kPa}**", "**{°C}**", "**{mg/dL}**": click it to change the unit of blood pressure, temperature and blood glucose.

### Screen description:

"Product ID:PC-300SNT": the product name of the connected device.

"SW Version 1.6 HW Version 1.1": the version information of the connected device.

"Battery 3": the battery voltage level of the connected device.


"" : the battery capacity symbol of the connected device.



Figure 3.5B Real time data receiving screen (including receiving ECG data)

Note: this screen shows the real time data transmission where the wireless connection can be setup automatically. When the Spot-Check Monitor hand-shakes successfully, the bottom of the screen will display the product ID, version information and battery voltage level. At this moment, the real time data transmission will start, the data will be displayed on the screen and stored under this patient archive. During data transmission, the current data and trend graph are displayed.

### 3.4 Device Data

Before uploading data, please connect the device to PC with the provided USB data cable at first, details see section 2.3.

#### Operation Description:

1. On main screen, click "Device Data", then "Upload Device Data" dialog pops up on the screen, as shown in figure 3.6.

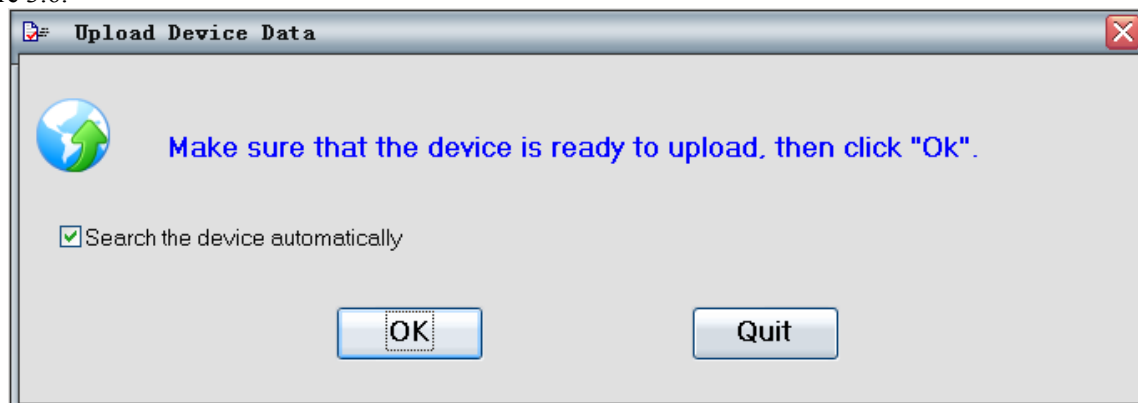


Figure 3.6A Data upload

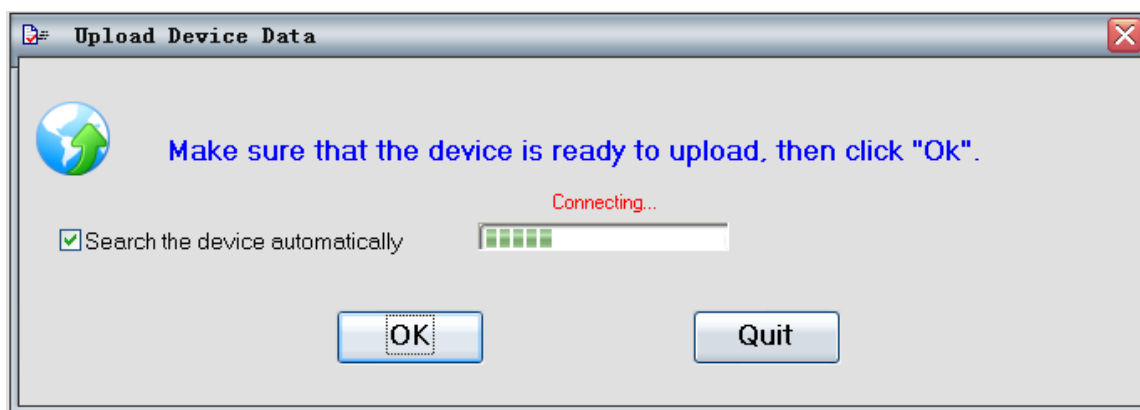


Figure 3.6B Data upload

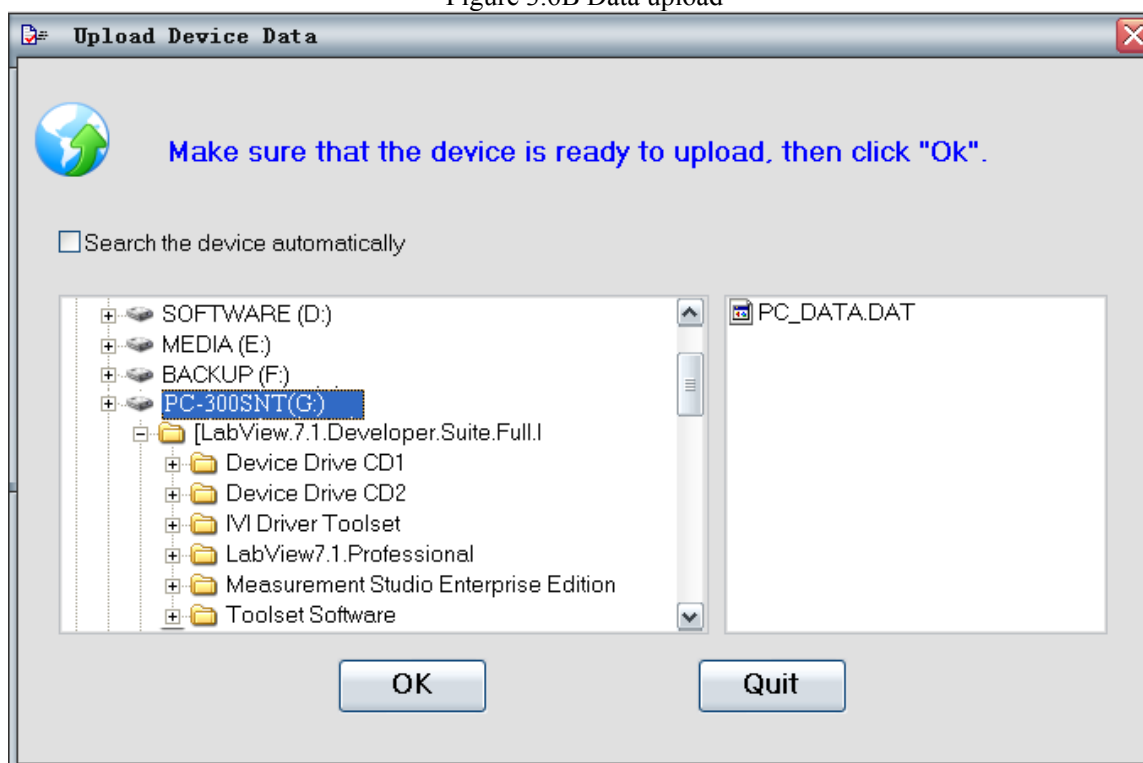


Figure 3.6C Data upload

2. When the device is connected to PC via data cable, the device works as a USB disk (eg. PC-300SNT) where the data file "PC\_DATA.DAT" exists in it. Data upload can be done by searching the specific device automatically or finding the specific data file with name of "PC\_DATA.DAT". Alert message pops up on the screen if it fails to search such data file. If the searching is successful, the below figure 3.7A appears.



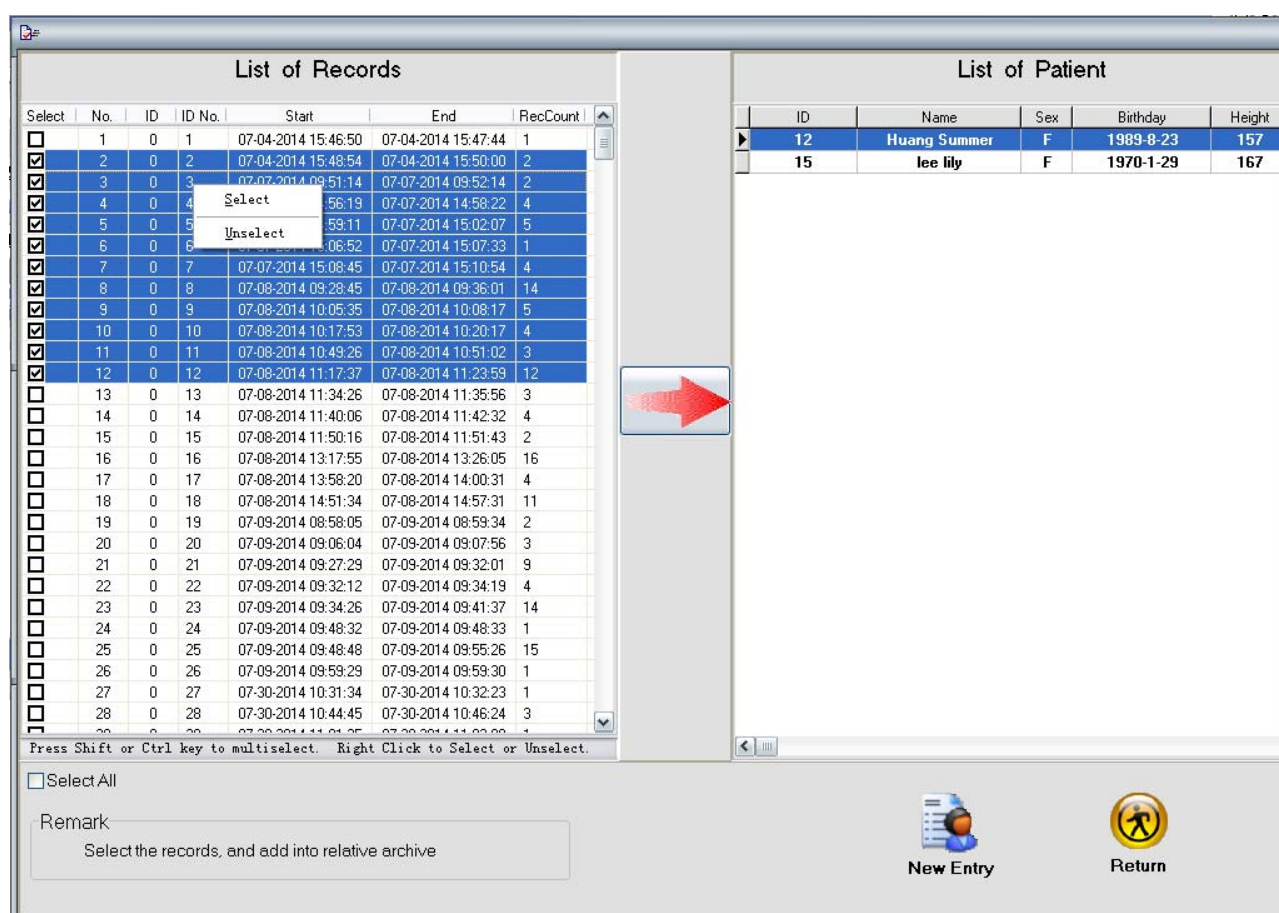



Figure 3.7A Upload the selected data record(s) to the selected patient archive

3. Select the data record to be uploaded on the "List of Records" side, select the patient account on the "List of Patient" side. If all data records are needed to be uploaded, tick on "Select all" check box in the lower left area, otherwise, only the check boxes corresponding to the selected record(s) need to be ticked on. Note: the user can also select or deselect a single record by clicking right mouse button, or make multiple selections by pressing Shift key or Ctrl key while ticking on the check boxes.

4. Click on "  " button, the data upload will be done, and the system info window will appear, as shown in figure 3.7B. Click "OK" button to return to the record list. Figure 3.7B shows that 6 already uploaded data records are ignored and 21 data record(s) have been uploaded successfully.

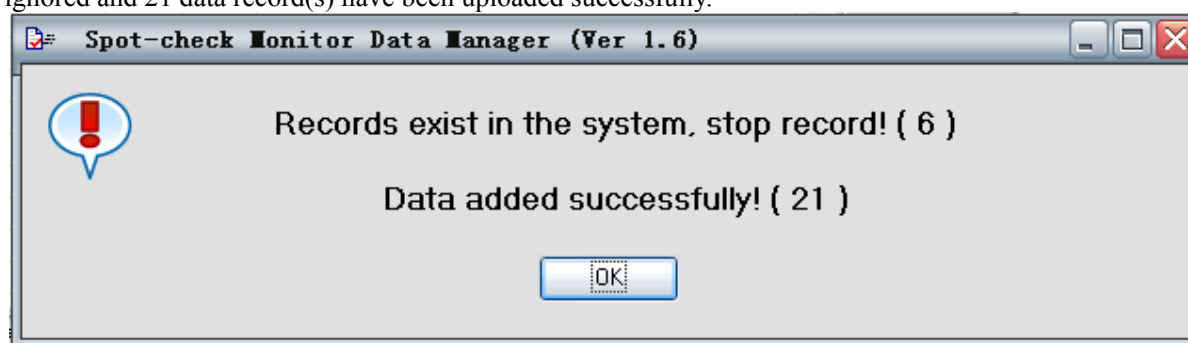



Figure 3.7B

Note: If user has not set up a new patient record, click on "New entry"  button to perform entering patient record. Refer to section 3.2 for details. Click on "Return"  button to exit from Device Data screen.

### 3.5 Event Setup

On main menu window, click "Event Setup" to enter into Settings screen, as shown in figure 3.8. There are three tabs, click on the tab to shift page to its relevant page.

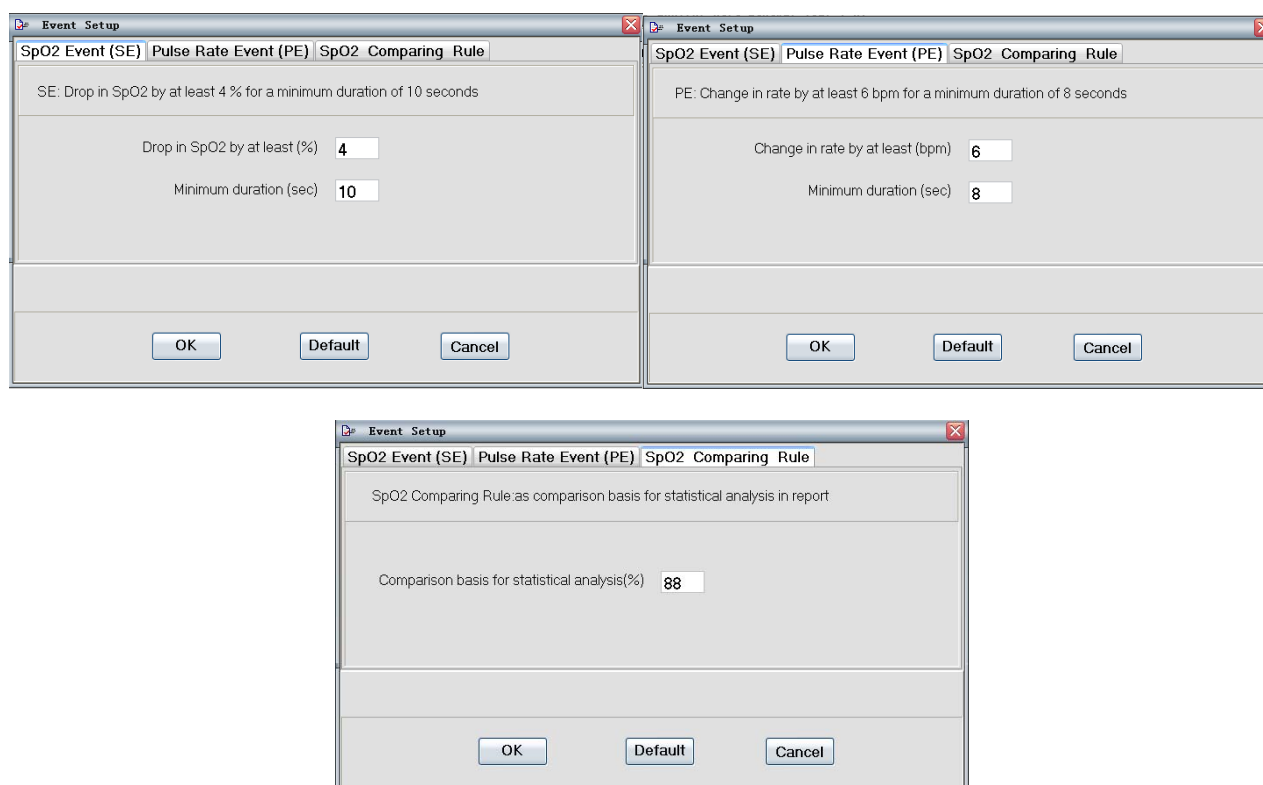


Figure 3.8 Event Setup

**Screen description:**✧ **SpO<sub>2</sub> Event (SE)**

If the SpO<sub>2</sub> value exceeds the preset “drop in SpO<sub>2</sub> by at least (%)” and this status lasts not less than the preset “minimum duration (sec)”, it will be recorded as a SpO<sub>2</sub> event. For example, set “drop in SpO<sub>2</sub> by at least (%)” as “4” and set minimum duration as “10”, when drop in SpO<sub>2</sub> by at least 4 digits for a minimum duration of 10 seconds, SpO<sub>2</sub> event will be triggered and recorded as a SpO<sub>2</sub> event.

✧ **Pulse Rate Event (PE)**

If the PR value exceeds the preset “change in rate by at least (bpm)” and this status lasts not less than the preset “minimum duration (sec)”, it will be recorded as a Pulse Rate event. For example, set “change in rate by at least (bpm)” as “6” and set minimum duration as “8”, when change in PR rate by at least 6bpm for a minimum duration of 8 seconds, PR event will be triggered and recorded as a PR event.

✧ **SpO<sub>2</sub> Comparing Rule**

You can define a SpO<sub>2</sub> value as a comparison base for statistical analysis according to your own needs. For example, if you set “Comparison basis for statistical analysis (%)” as “88”, you can know how many times the SpO<sub>2</sub> event occur and the time percentage below 88% in measuring time.

### 3.6 System Setup

On main menu window, click "System Setup" to enter into System Setup screen, as shown in figure 3.9. There are 4 tabs, click on the tab to shift page to its relevant page.

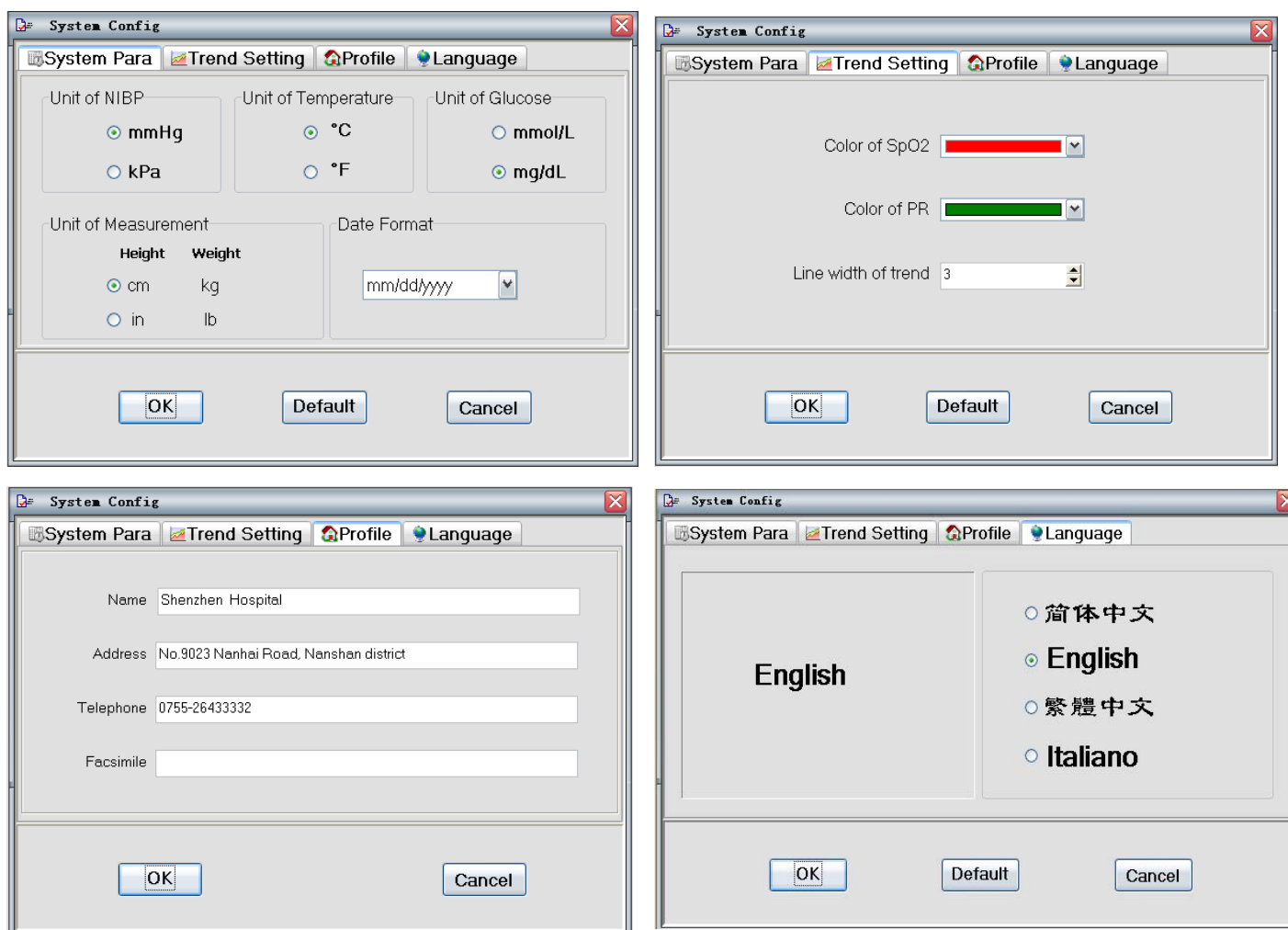


Figure 3.9 System Setup

### ✧ System Parameter

- **Unit of SYS and DIA:** set the units of Systolic pressure and Diastolic pressure: "mmHg" or "kPa".  
1kPa=7.5mmHg.
- **Unit of Measure:** set the units of height and weight: "in and lb." or "cm and kg"  
**Unit conversion: 1 cm = 0.39in    1kg = 2.2 lb.**
- **Unit of temperature:** set the unit of temperature: °C or °F
- **Unit of Glucose:** set the unit of Blood glucose: mmol/L or mg/dL.
- **Date format:** select the date format.

The "mm/dd/yyyy", "yyyy/mm/dd" and "dd/mm/yyyy" format are optional.

### ✧ Trend Setting

- **Color of SpO<sub>2</sub>:** for setting the color of SpO<sub>2</sub> trend curve (click "▼" and choose the color);
- **Color of PR:** for setting the color of PR trend curve;
- **Line width of trend:** for setting the line width of SpO<sub>2</sub> and PR trend curves displayed in the graphic trend area;

## ❖ Profile

➤ **Profile:** enter into the medical institution's name, address, telephone number and fax number.

## ❖ Language

➤ The operator can change the language of this Data Manager, English, Simplified Chinese, Traditional Chinese and Italian for optional.

## 3.7 Review

1. On main menu window, click "Review" to enter into data review screen, as shown in figure 3.10.

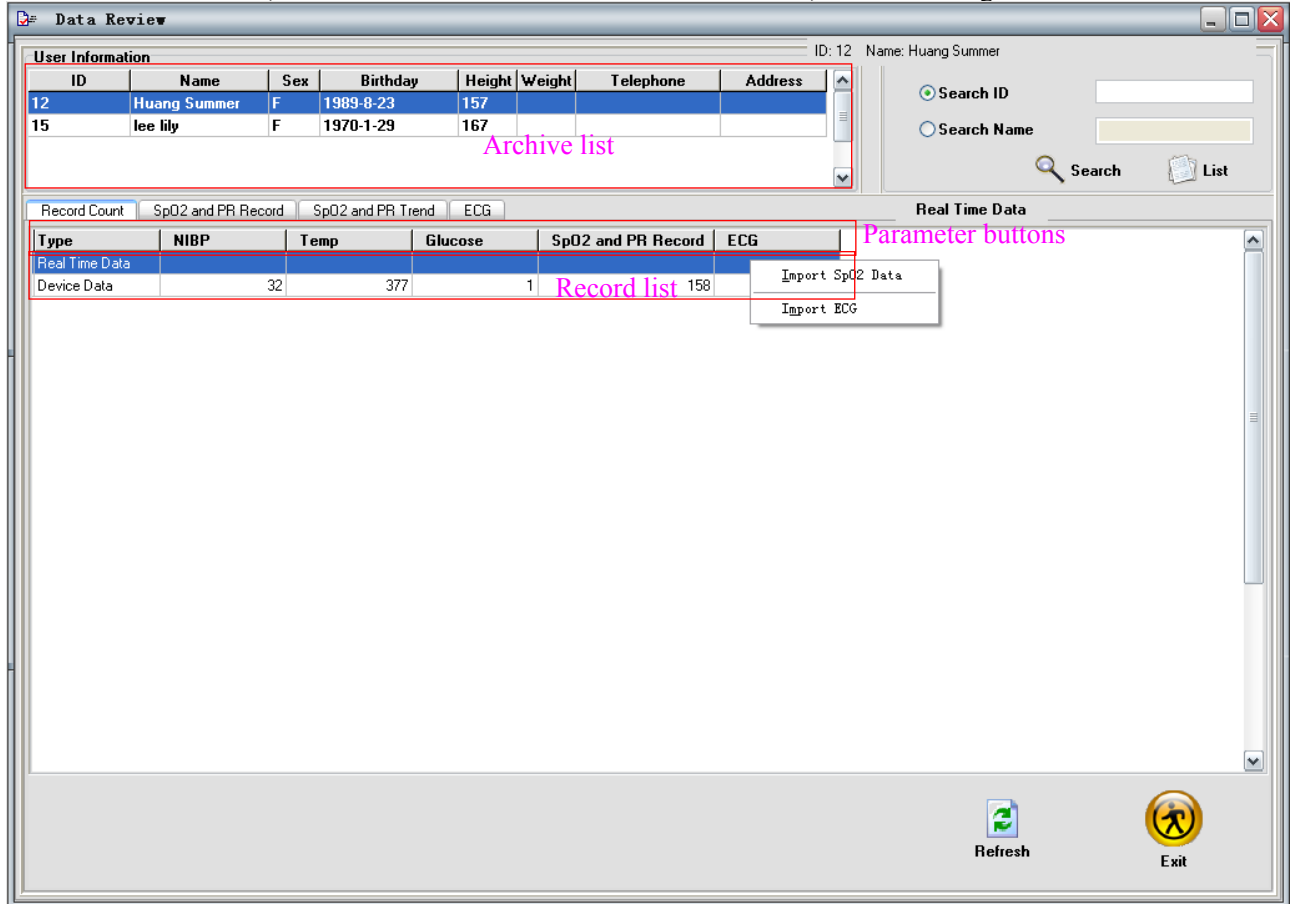


Figure 3.10 Review screen

### Functional buttons:



"Refresh" Refresh: click it to refresh record list.



"Return" Return: click it to return to main screen.

Note: right click the mouse button on "Record list area", message "Import SpO<sub>2</sub> / Import ECG data" pops up, then SpO<sub>2</sub> data (data file with CSV format) or ECG data (data file with extension name ".ecg300") can be imported to the selected patient archive.

### Operating procedure:

1. The upper screen is the user information which can be searched by "Search as ID" or "Search as name", or by selecting a member in archive list. Select and click a member, then all record list of this member will be displayed. In record list, "Type, NIBP, TEMP, Glucose, SpO<sub>2</sub> and PR Record, ECG" are displayed, including two types---"Real Time Data" and "Device Data"; record number(s) will be displayed below each parameters (eg. NIBP, TEMP, Blood Glucose etc.), for example, "0" means there is no record.
2. Select "Real Time Data" or "Device Data" first, then click one of the parameter buttons, such as

" **NIBP** " , " **Temp** " , " **Glucose** " , " **SpO2 and PR Record** " or " **ECG** " etc. to enter into the corresponding review window. Click " **Record Count** " to enter into figure 3.10.

3. Finishing step 1 and step 2 "Select or search→Select a certain record", then the following operation can be performed: review waveform, review measured result, print waveform, analysis result etc.. Please refer to the following detailed operation and description.

#### ◆ NIBP Data Review

✧ Click "NIBP" button to enter into NIBP data review window, the example of NIBP record for device data is as shown in figure 3.11.

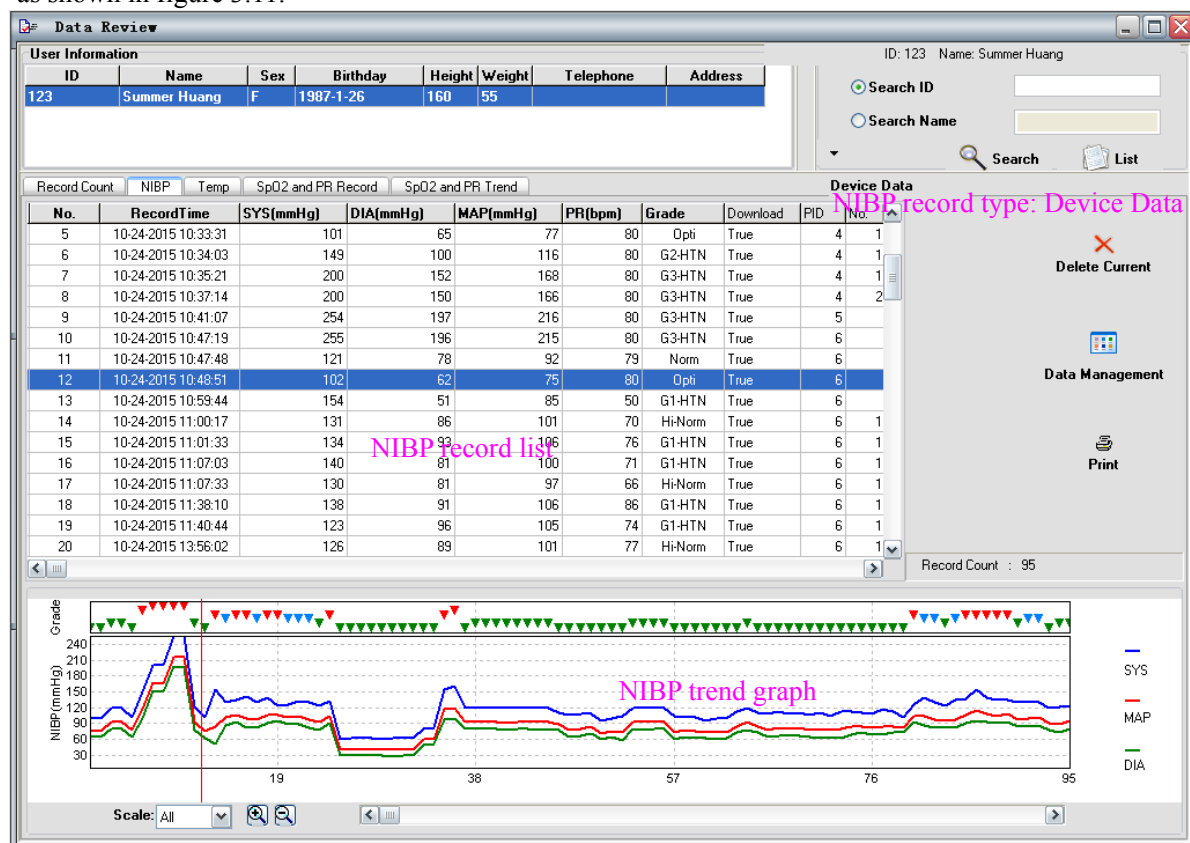


Figure 3.11 NIBP data review (device data)

#### Screen description:

Blood pressure will be classified into different grades and may be displayed in numbers, which corresponds to "Optimal", "Normal", "High normal", "Grade 1 hypertension", "Grade 2 hypertension" and "Grade 3 hypertension", they are defined in form 3-1.








Note: the following blood pressure grade is classified according to the standard applicable for adult.

SYS (mmHg) \ DIA (mmHg)						
	<120	120-129	130-139	140-159	160-179	>=180
<80	Optimal / 1	Normal / 2	High normal / 3	Grade 1 hypertension / 4	Grade 2 hypertension / 5	Grade 3 hypertension / 6

80-84	Normal / 2	Normal / 2	High normal / 3	Grade 1 hypertension / 4	Grade 2 hypertension / 5	Grade 3 hypertension / 6
85-89	High normal / 3	High normal / 3	High normal / 3	Grade 1 hypertension / 4	Grade 2 hypertension / 5	Grade 3 hypertension / 6
90-99	Grade 1 hypertension / 4	Grade 1 hypertension / 4	Grade 1 hypertension / 4	Grade 1 hypertension / 4	Grade 2 hypertension / 5	Grade 3 hypertension / 6
100-109	Grade 2 hypertension / 5	Grade 2 hypertension / 5	Grade 2 hypertension / 5	Grade 2 hypertension / 5	Grade 2 hypertension / 5	Grade 3 hypertension / 6
>=110	—	Grade 3 hypertension / 6	Grade 3 hypertension / 6	Grade 3 hypertension / 6	Grade 3 hypertension / 6	Grade 3 hypertension / 6

Form 3-1 Blood pressure grade and its range

Description for functional buttons

- Buttons in NIBP record list: "No.", "RecordTime", "SYS(mmHg)", "DIA(mmHg)", "PR(bpm)", "Grade" or "Type", click one of the buttons, then the corresponding records will be listed, and the NIBP trend will be changed. "MAP (mmHg)" will not be displayed for the different device configuration.
- " ": click it to change the trend time scale for reviewing the certain graphic trend area. Click " " or " " to zoom in or out the time scale and trend graph around the red cursor line.
- " ": click it to move the scroll bar to review all trends graphs in different time scale.
- "|": drag the cursor line "|" on graphic trend to NIBP record you want to review and pressing and holding the mouse button, then the measuring time, value, pressure grade can be viewed, the display disappears after releasing mouse button.
-  **Export:** export the real time record (or device data) under the current patient ID to a data file. The file name will be "XXX.csv" which is a plain text document, and can be opened by software such as "EXCEL", "WORDPAD" or "NOTEPAD". See Figure 3-12A for exported sample data file.

	A	B	C	D	E	F	G
1	# ID: 133	Name: summer					
2	# RecordTime	SYS (mmHg)	DIA (mmHg)	MAP (mmHg)	PR (bpm)	Grade	Mode
3							
4	09-24-2013 16:	206	152	163	80	G3-HTN	Adult
5	09-24-2013 16:	203	153	163	80	G3-HTN	Adult
6	09-24-2013 16:	204	152	162	80	G3-HTN	Adult
7	09-24-2013 16:	204	152	162	80	G3-HTN	Adult
8	09-24-2013 16:	203	152	162	79	G3-HTN	Adult
9	09-24-2013 16:	204	152	162	80	G3-HTN	Adult
10	09-24-2013 16:	204	151	161	80	G3-HTN	Adult

Figure 3.12A The exported sample file



- **"Data Management"**: click it to enter into data management window, as shown in figure 3.12B, where the selected data record(s) can be batch deleted, exported and so on.

**NIBP - Data Management**

Select	No.	RecordTime	SYS(mmHg)	DIA(mmHg)	PR(bpm)	Grade	Download	PID	No.
<input checked="" type="checkbox"/>	27	02-27-2008 00:14:38	95	52	69	Opti	True	38	88
<input checked="" type="checkbox"/>	28	02-27-2008 00:15:14	98	58	70	Opti	True	38	89
<input checked="" type="checkbox"/>	29	02-27-2008 00:16:45	95	48	70	Opti	True	38	92
<input checked="" type="checkbox"/>	12	02-27-2008 02:22:18	125	79	77	Norm	True	28	34
<input checked="" type="checkbox"/>	13	05-22-2014 00:34:03	127	83	74	Norm	True	28	38
<input checked="" type="checkbox"/>	14	05-22-2014 00:38:50		82	82	Norm	True	28	49
<input checked="" type="checkbox"/>	15	05-22-2014 00:42:23		80	77	Norm	True	28	57
<input checked="" type="checkbox"/>	1	07-09-2014 09:48:32		77	85	Norm	True	0	130
<input checked="" type="checkbox"/>	2	07-09-2014 09:50:06	119	69	80	Opti	True	0	133
<input checked="" type="checkbox"/>	3	07-09-2014 09:54:10	102	68	83	Opti	True	0	142
<input checked="" type="checkbox"/>	4	07-09-2014 09:59:29	160	101	26	G2-HTN	True	0	146
<input checked="" type="checkbox"/>	10	07-09-2014 10:07:45	117	82	76	Norm	True	20	1
<input checked="" type="checkbox"/>	11	07-09-2014 10:10:42	125	70	80	Norm	True	20	8
<input checked="" type="checkbox"/>	16	07-10-2014 09:17:28	111	62	82	Opti	True	30	17
<input checked="" type="checkbox"/>	17	07-10-2014 09:27:23	136	60	62	Hi-Norm	True	30	18
<input checked="" type="checkbox"/>	18	07-10-2014 09:28:39	126	94	83	G1-HTN	True	30	19
<input checked="" type="checkbox"/>	19	07-14-2014 10:48:50	71	59	67	Opti	True	38	39
<input checked="" type="checkbox"/>	20	07-14-2014 10:50:48	98	58	71	Opti	True	38	43
<input checked="" type="checkbox"/>	21	07-14-2014 11:06:19	113	58	71	Opti	True	38	75
<input checked="" type="checkbox"/>	22	07-14-2014 11:06:51	100	46	66	Opti	True	38	76
<input checked="" type="checkbox"/>	23	07-14-2014 11:07:19	99	46	66	Opti	True	38	77
<input checked="" type="checkbox"/>	24	07-14-2014 11:07:53	129	62	67	Norm	True	38	78
<input checked="" type="checkbox"/>	25	07-14-2014 11:08:32	92	54	64	Opti	True	38	80
<input checked="" type="checkbox"/>	26	07-14-2014 11:10:24	93	50	66	Opti	True	38	82
<input checked="" type="checkbox"/>	30	07-16-2014 09:12:02	129	66	80	Norm	True	38	130
<input checked="" type="checkbox"/>	31	07-16-2014 09:12:59	121	68	74	Norm	True	38	132
<input checked="" type="checkbox"/>	32	07-16-2014 09:14:02	116	58	76	Opti	True	38	134
<input checked="" type="checkbox"/>	5	07-31-2014 08:42:10	139	86	69	Hi-Norm	True	0	153
<input checked="" type="checkbox"/>	6	07-31-2014 08:42:39	133	83	62	Hi-Norm	True	0	154
<input checked="" type="checkbox"/>	7	07-31-2014 08:43:30	131	75	62	Hi-Norm	True	0	155
<input checked="" type="checkbox"/>	8	07-31-2014 08:44:51	132	76	67	Hi-Norm	True	0	156

Press Shift or Ctrl key to multiselect. Right Click to Select or Unselect.

☒ Select All

Export Delete Exit

Record Count : 32

Figure 3.12B Data management



- **"Delete Current"**: click it to delete the current selected data record.



- **"Print"**: click it to print the NIBP trend report for the current displayed data, the NIBP trend report is as shown in figure 3.13.

Generally, on data review screen, click "" to enter into the data management screen, then "Backup", "Restore" and "Import" operation can be performed.

- **"Backup"**: click it to backup the current selected record(s) to the corresponding file folder.
- **"Restore"**: click it to restore the data file folder (storing multiple pieces of records) within the computer into the current user account.
- **"Import"**: click it to import the data file folder (eg. with extension of ".csv") within the computer to the current user account.

Note: the functional buttons in NIBP record review screen is similar to other screen, so we will not cover it again.

### Operation instruction:

1. Select the proper time scale for convenient graphic trend reviewing.
2. The icons below the NIBP record list is subject to the selected user patient ID, if there is no one/some physiological parameter, then the physiological parameter will not displayed. For example, in figure 3.11, there is no SpO<sub>2</sub> parameter, then "SpO<sub>2</sub>" will not displayed.

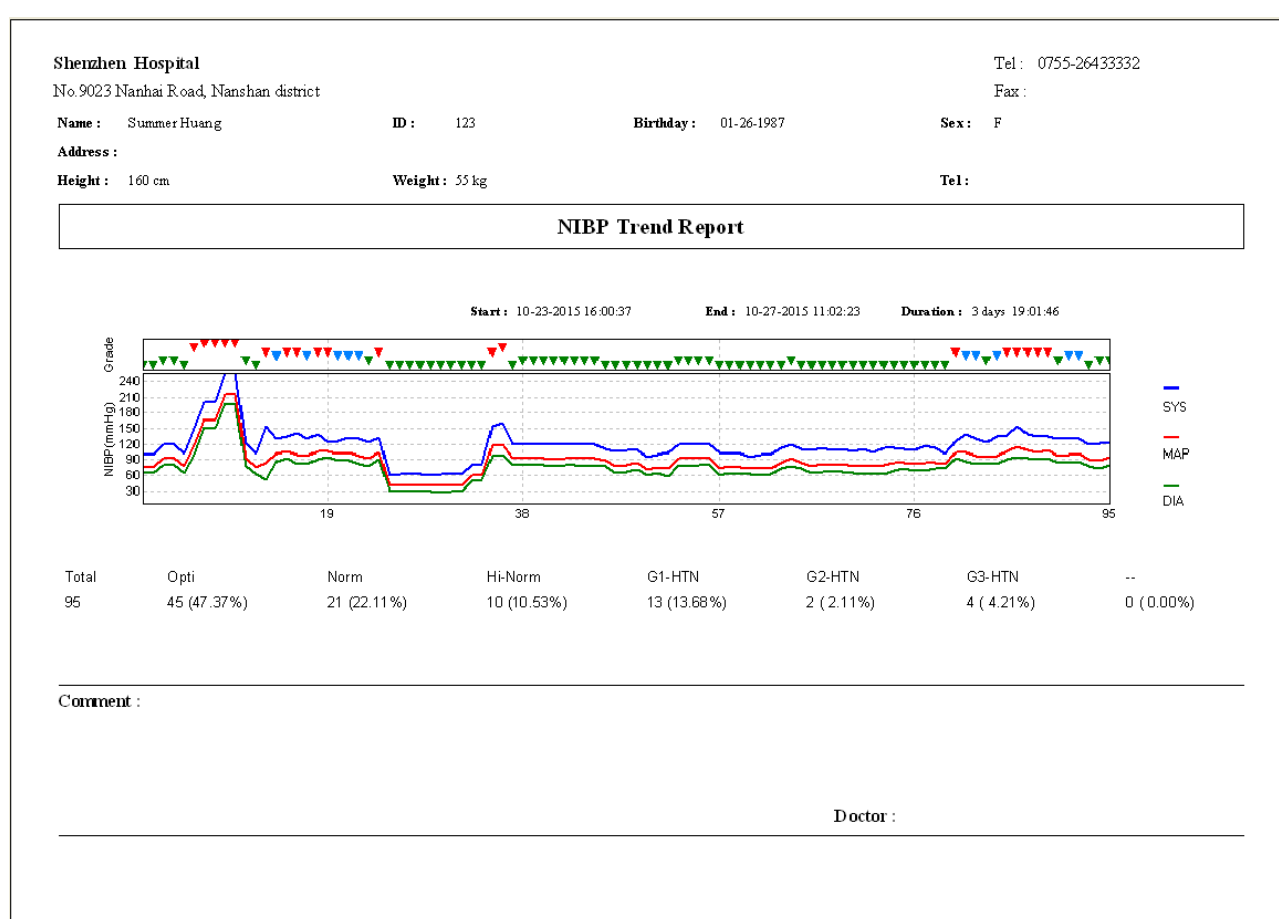


Figure 3.13 NIBP trend report

Note: if there is no blood pressure grade, then "--" shows on the trend report.

### Operations:

On each report preview display window, there is a tool bar above the report. The function of each button will be defined below.



- ① "Fit to width": Preview the report in proper width.
- ② "Fit to page": Full screen preview the report in proper proportion.
- ③ "Zoom in": Click it to zoom in the report.
- ④ "Zoom out": Click it to zoom out the report.
- ⑤ "Actual size": Preview the report in actual size.
- ⑥ "103%": Zooming proportion: Displays the zooming proportion for the current report preview.
- ⑦ "Print": Print the current report displayed.
- ⑧ "Save": Save. Click this button can save the records in picture format on.
- ⑨ "Page navigation": If the content of records is more than one page, click this button to turn the page up and down so as to preview all records.
- ⑩ "Exit": Exit. Exit from the current preview.



## ◆ TEMP Data Review

Click on "TEMP" to enter into TEMP Data Review screen, as shown in figure 3.14.

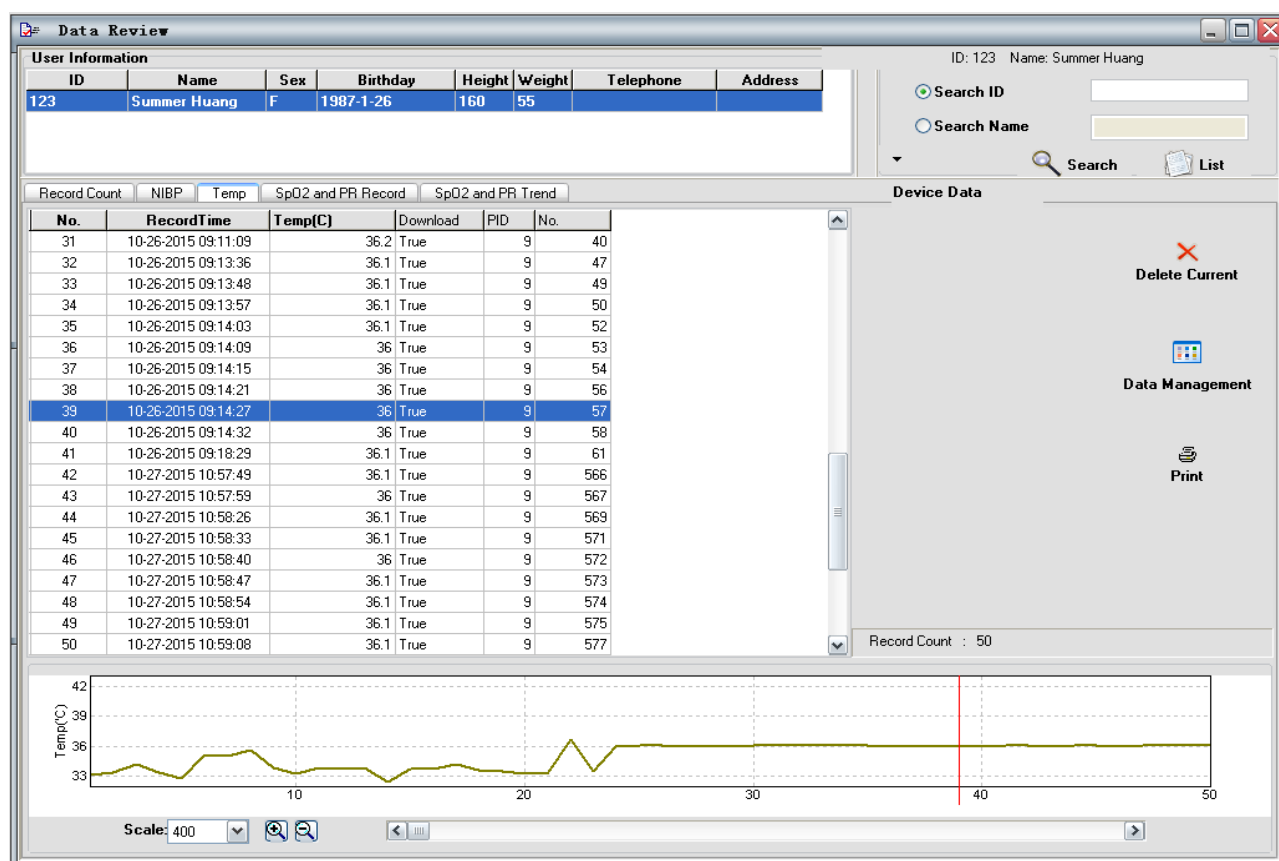


Figure 3.14 TEMP Data review screen

Click on "Print" button to print the temperature trend report of the current screen, as shown in figure 3.15.

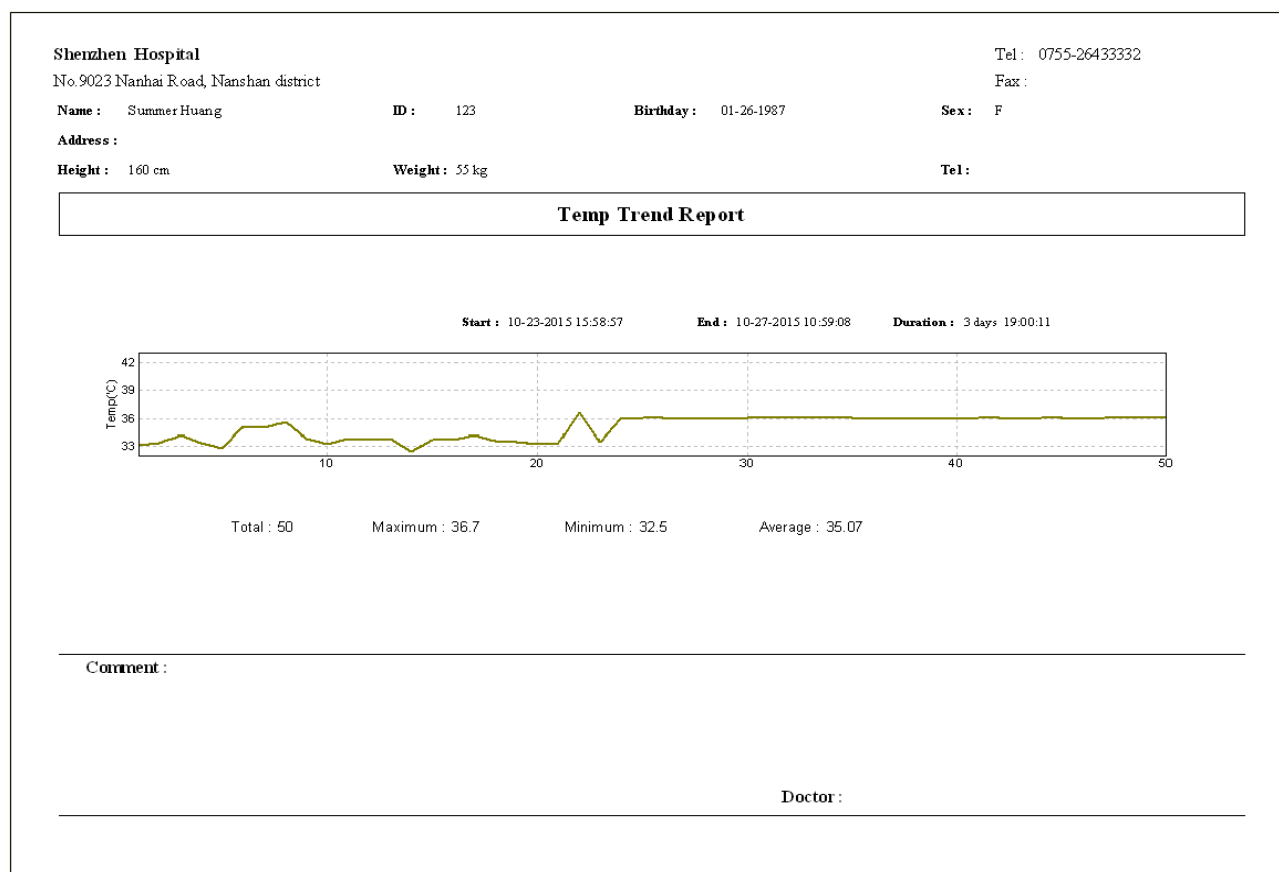


Figure 3.15 Temperature trend report

### ◆ Blood Glucose Data Review

Click on "Glucose" to enter into Blood Glucose Data review screen, as shown in figure 3.16A, blood glucose trend report is as shown in figure 3.16B.

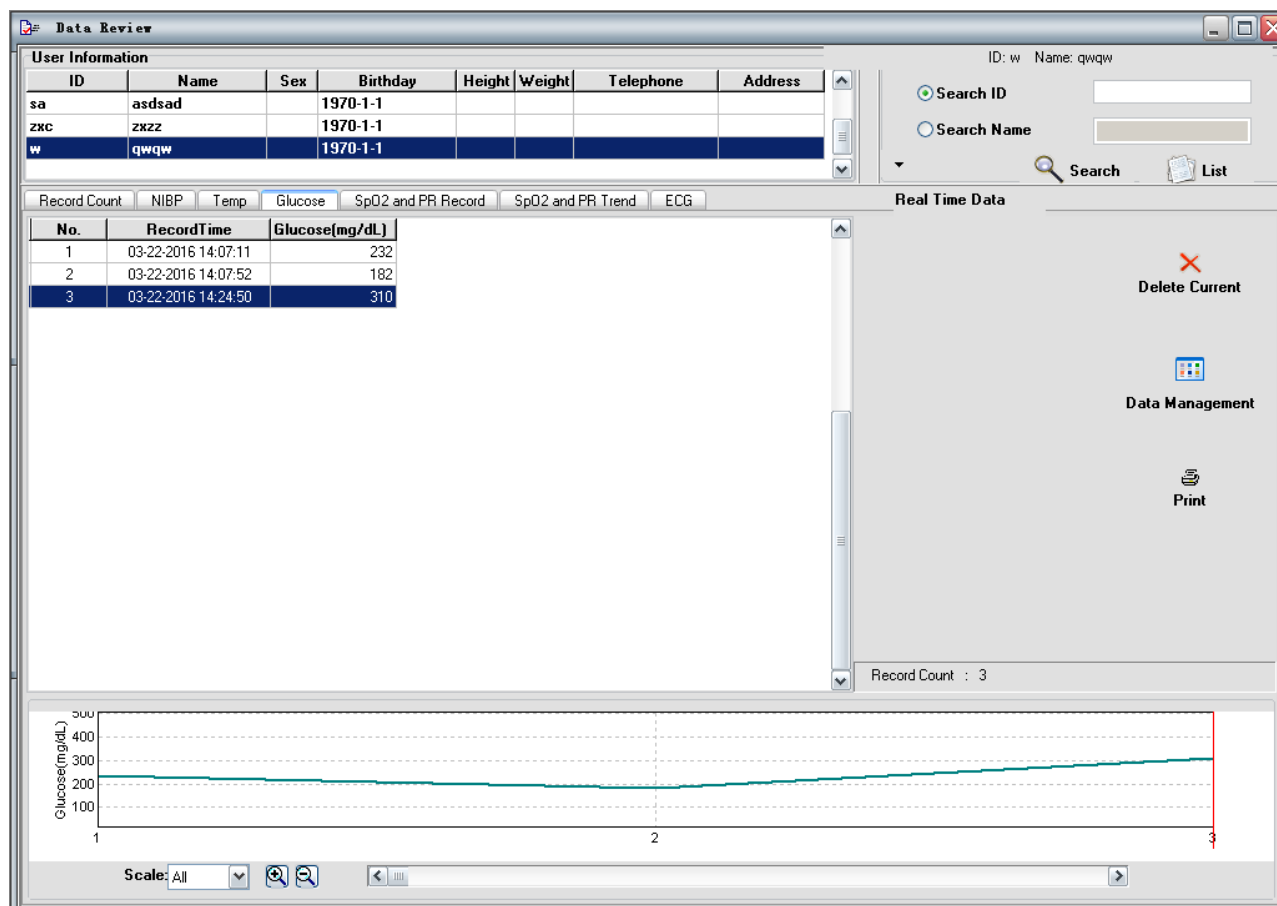


Figure 3.16A Blood Glucose data review screen

			Tel :
			Fax :
<b>Name :</b> qwrqw	<b>ID :</b> w	<b>Birthday :</b> 01-01-1970	<b>Sex :</b>
<b>Address :</b>			
<b>Height :</b>	<b>Weight :</b>	<b>Tel :</b>	

**Glucose Trend Report**

**Start :** 03-22-2016 14:07:11    **End :** 03-22-2016 14:24:50    **Duration :** 0 days 00:17:39



The graph displays a line plot of glucose levels (mg/dL) over time. The y-axis ranges from 100 to 500 mg/dL with major grid lines every 100 units. The x-axis is divided into three segments labeled 1, 2, and 3. The glucose level starts at approximately 200 mg/dL in segment 1, remains relatively stable, and then shows a slight upward trend in segment 2, reaching about 310 mg/dL by the end of segment 3. Dashed horizontal lines are present at 100, 200, 300, and 400 mg/dL.

Total : 3	Maximum : 310.0	Minimum : 182.0	Average : 241.33
-----------	-----------------	-----------------	------------------

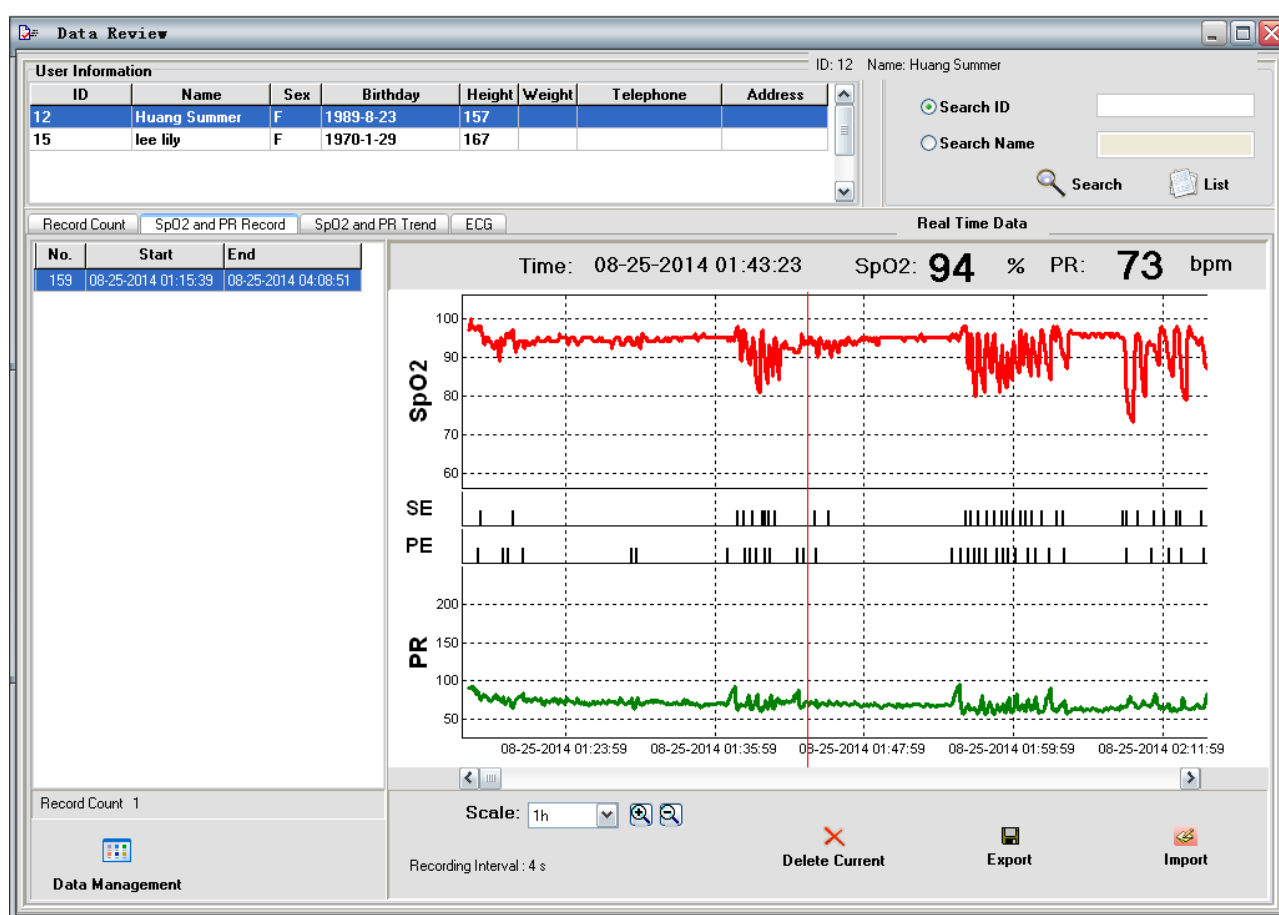
**Comment :** \_\_\_\_\_  
  

**Doctor :** \_\_\_\_\_

Figure 3.16B Blood glucose trend report

#### ◆ SpO<sub>2</sub> and PR Record Review

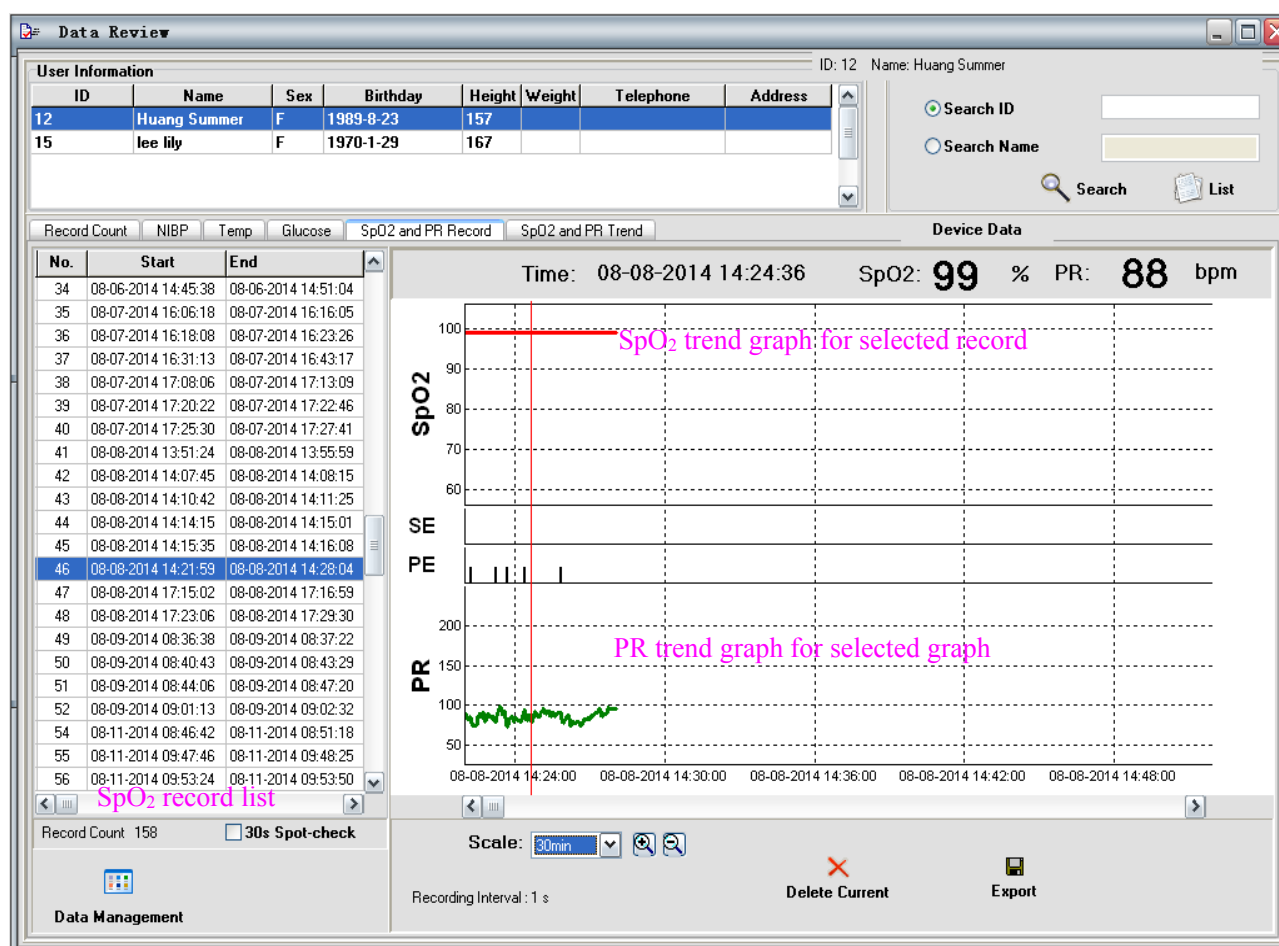
Click on "SpO<sub>2</sub> and PR Record" to enter into SpO<sub>2</sub> and PR Record recall screen, as shown in figure 3.17, it displays the SpO<sub>2</sub> and PR graphic trend for one single piece of record.

Figure 3.17A SpO<sub>2</sub> and PR Record review screen (Real time data)

**Import** "Import": click it to import the data from the data file (with extension of "asc") which is exported from Nonin device or the SpO<sub>2</sub> & PR data file (with extension of "csv") which is exported by this software (with version 1.6 or higher) to the selected patient account.



**Export** "Export": click it to export the currently selected records for the selected patient to a data file. The file format will be CSV (Comma Separated Value) and with extension name of "csv", which is a plain text document. The exported data file (CSV format) can be imported by this software "Spot-Check Data Manager" (version 4.5 or higher).

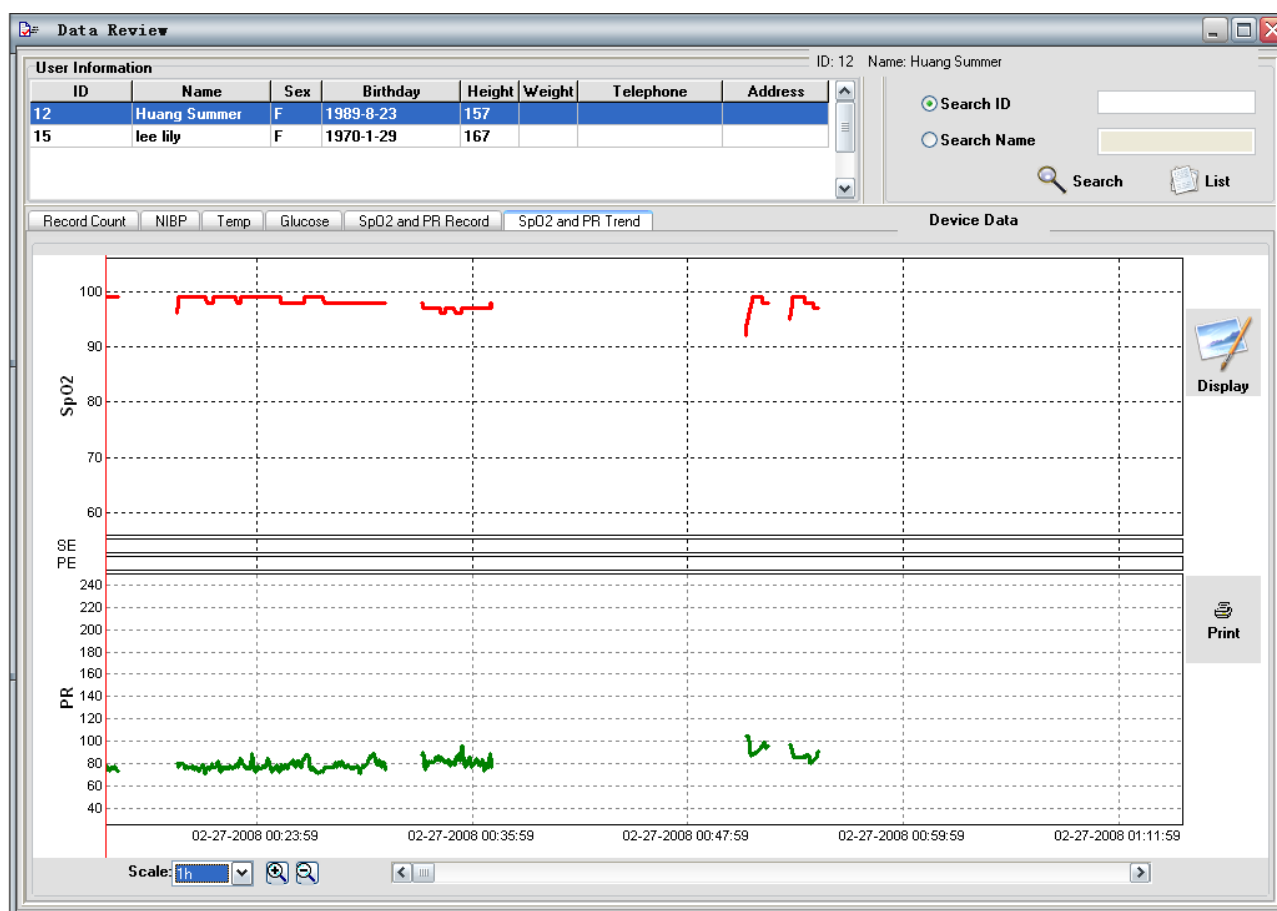
Figure 3.17B SpO<sub>2</sub> and PR Record review screen (Device data)

Data management "Data Management" icon: click it to enter into the data management screen, then "Backup", "Restore" and "Import" operation can be performed, details are as below:

- **"Backup"**: click it to backup the current selected record(s) to the corresponding file folder, that's save the selected record(s) to a file folder with extension of .SPO<sub>2</sub>.
- **"Restore"**: click it to restore the data file folder within the computer into the current user account.
- **"Import"**: click it to import the data file folder (eg. with extension of ".csv") within the computer to the current user account.

### ◆ SpO<sub>2</sub> and PR Trend Review

Click on "SpO<sub>2</sub> and PR Trend" to enter into SpO<sub>2</sub> and PR trend review screen, as shown in figure 3.18. SpO<sub>2</sub> and PR Trend is the current user's all graphic trends of all real time data or device data.

Figure 3.18 SpO<sub>2</sub> and PR trend screen

"**Display**": click it to load graphic trends. If the current record is real time, then it displays the real time SpO<sub>2</sub> and PR Trend.

"**Event Mark**": If the measured value is identified by the event condition, there will be an event mark "■" made in graphic trend area.

### Print SpO<sub>2</sub> and PR Report

Click on "Print" button to print SpO<sub>2</sub> and PR report. Note that printing the report should be after setting event and parameter when necessary. A dialog box with options will appear on the window, as shown in figure 3.19A, where the Comprehensive report, Summary report, % Times text report and Desaturation report can be printed, as shown in figure 3.19B, 3.19C, 3.19D and 3.19E.

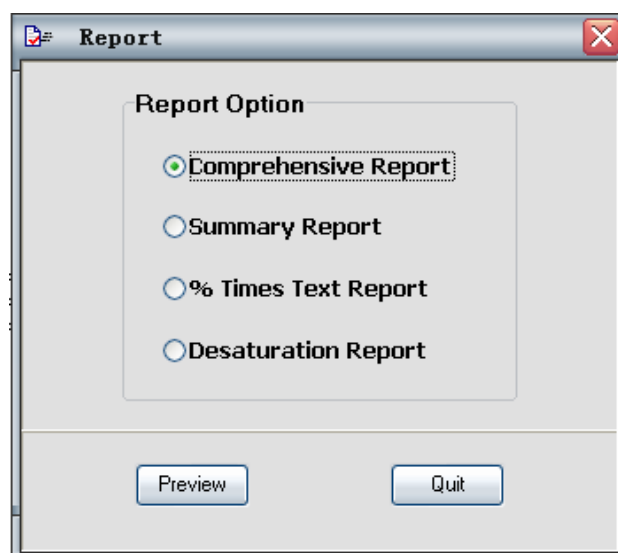


Figure 3.19A Report option

**Preview:** click on "Preview" button to preview the report, then print the corresponding report.

### Report description

**Comprehensive Report:** print SpO<sub>2</sub> and pulse rate statistical analysis and graphic trends corresponding to this record.

**Summary Report:** print the entire event information and SpO<sub>2</sub> and pulse rate distribution chart corresponding to this record.

**%Times Text Report:** print the percentage of duration over the total measuring time, during which, the predefined range of SpO<sub>2</sub> or PR value occurred. The occurrence of SpO<sub>2</sub> or PR value within the predefined range will be printed out accordingly.

**Desaturation Report:** print all the SpO<sub>2</sub> event information.

- "SpO<sub>2</sub> at (Time)": it indicates the SpO<sub>2</sub> distribution by time (by percentage of total measuring time). From the table in Figure 3-17C, we can get the information below: In entire measuring time, all the SpO<sub>2</sub> values are less than 100%.
- "SpO<sub>2</sub> at (Events)": it indicates the number of events occurred at the given range of SpO<sub>2</sub> value.

### Report Explanation

1. "SpO<sub>2</sub> at (Time)": it indicates the SpO<sub>2</sub> distribution by time.
2. "SpO<sub>2</sub> at (Events)": it indicates the number of events occurred at the given range of SpO<sub>2</sub> value.
3. In the following figures, the number "0" next to the "Duration" represents the number of day. For example, in the comprehensive report: "Duration: 0 02: 53:08" means the duration time is 0 day 2 hours 53 minutes 8 seconds.
4. Definition of ODI (Oxygen Desaturation Index):  $ODI = \text{number of SpO}_2 \text{ (desaturation) events} / \text{Analyzed time (hours)}$ . For example, in figure 3.17C, the analyzed time is 02:52:08, corresponding to  $2 + (52 \times 60 + 8) / 3600 = 2.8689$  (hours), number of SpO<sub>2</sub> events (SE) = 108, then  $ODI = 108 / 2.8689 = 37.65$ .

Tel:

Fax:

Name: Huang Summer

ID: 12

Birthday: 08-23-1989

Sex: F

Address:

Height: 157 cm

Weight:

Tel:

### Comprehensive Report

Start: 08-25-2014 01:15:39

End: 08-25-2014 04:08:47

Duration: 0 days 02:53:08

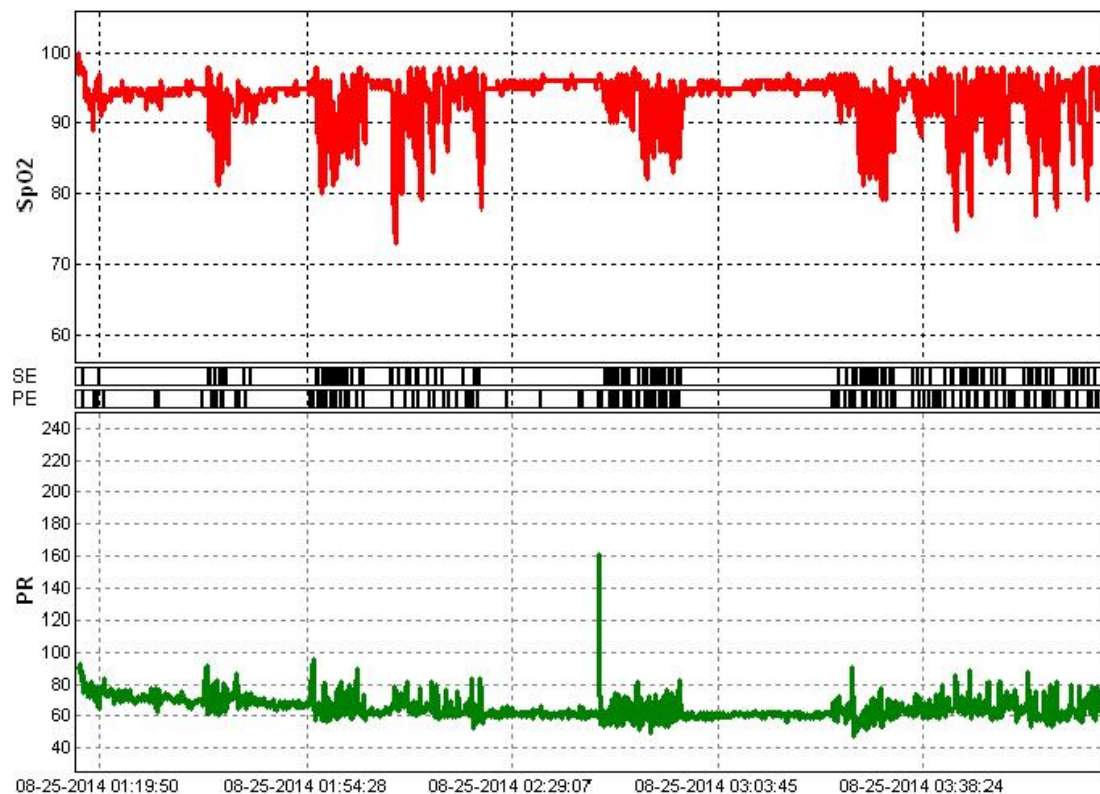
Analyzed: 0 days 02:52:08

Highest pulse:	161	Highest Spo2:	100	Time with Spo2<90	0 00:25:28	14.7%
				Time with Spo2<80	0 00:02:28	1.4%
Lowest pulse:	47	Lowest Spo2:	73	Time with Spo2<70	0 00:00:00	0%
				Time with Spo2<60	0 00:00:00	0%
Mean pulse:	64.8	Mean Spo2:	93.3	Time with Spo2<88	0 00:17:45	10.3%

SE: Drop in Sp O2 by at least 4 % for a minimum duration of 10 seconds

PE: Change in rate by at least 6 bpm for a minimum duration of 8 seconds

ODI: 37.65



Comment:

Doctor:

Figure 3.19B Comprehensive report



Tel:

Fax:

Name: Huang Summer

ID: 12

Birthday: 08-23-1989

Sex: F

Address:

Height: 157 cm

Weight:

Tel:

## Summary Report

Start: 08-25-2014 01:15:39

End: 08-25-2014 04:08:47

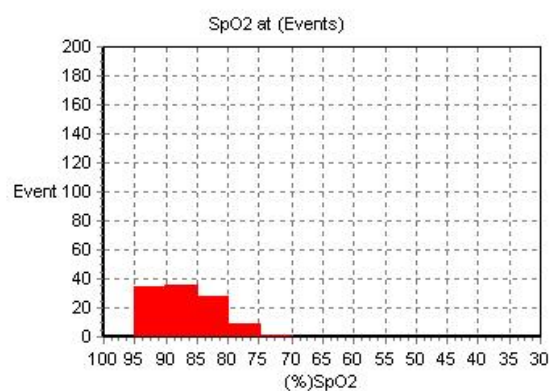
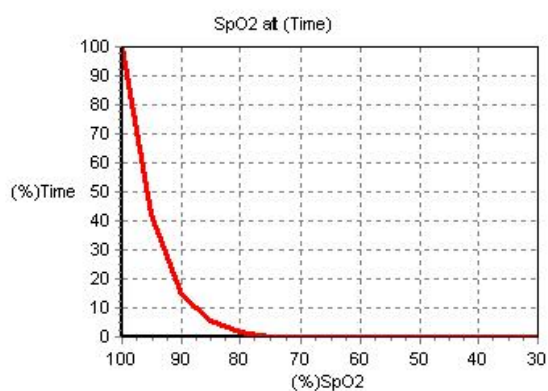
Duration: 0 days 02:53:08

Analyzed: 0 days 02:52:08

Event Data	SpO2	PR	%SpO2 Level	Events	SpO2 Below	Time(%)	ODI
Total Events	108	120	99 -- 95	0	100	100	37.65
			94 -- 90	34	95	42.5	
SpO2 < 88 %	62		89 -- 85	36	90	14.7	
Event			84 -- 80	28	85	5.5	
SpO2 < 88 %	10.3		79 -- 75	9	80	1.4	
Time(%)			74 -- 70	1	75	0.2	
			69 -- 65	0	70	0	
			64 -- 60	0	65	0	
			< 60	0	60	0	

SE: Drop in SpO2 by at least 4 % for a minimum duration of 10 seconds

PE: Change in rate by at least 6 bpm for a minimum duration of 8 seconds



Comment:

Doctor:

Figure 3.19C Summary report

Tel:

Fax:

Name: Huang Summer

ID: 12

Birthday: 08-23-1989

Sex: F

Address:

Height: 157 cm

Weight:

Tel:

### % Times Text Report

Start: 08-25-2014 01:15:39

End: 08-25-2014 04:08:47

Duration: 0 days 02:53:08

Analyzed: 0 days 02:52:08

SpO2	Time(%)	SpO2	Time(%)	SpO2	Time(%)
100	0	89	2.3	79	0.5
99	0	88	2.1	78	0.3
98	2.6	87	1.8	77	0.2
97	5.7	86	1.8	76	0.2
96	19.1	85	1.2	75	0.2
95	30.1	84	1.5	74	0.1
94	11.8	83	0.7	73	0
93	7	82	0.7	72	0
92	4.1	81	0.6	71	0
91	2.7	80	0.5	70	0
90	2.2				
Total 90's	85.3	Total 80's	13.3	Total 70's	1.4
SpO2	Time(%)	SpO2	Time(%)	SpO2	Time(%)
69	0	59	0	49	0
68	0	58	0	48	0
67	0	57	0	47	0
66	0	56	0	46	0
65	0	55	0	45	0
64	0	54	0	44	0
63	0	53	0	43	0
62	0	52	0	42	0
61	0	51	0	41	0
60	0	50	0	40	0
Total 60's	0	Total 50's	0	Total 40's	0
Pulse range	Time(%)	Pulse range	Time(%)	< 40 0	
> 199	0	90 -- 99	0.5		
180 -- 199	0	80 -- 89	2.6		
160 -- 179	0	70 -- 79	19.6		
140 -- 159	0	60 -- 69	58.5		
120 -- 139	0	50 -- 59	18.6		
100 -- 119	0	< 50	0.2		

Comment:

Doctor:

Figure 3.19D % Times text report

Tel:

Fax:

Name: Huang Summer

ID: 12

Birthday: 08-23-1989

Sex: F

Address:

Height: 157 cm

Weight:

Tel:

### Desaturation Report

Start: 08-25-2014 01:15:39

End: 08-25-2014 04:08:47

Duration: 0 days 02:53:08

Analyzed: 0 days 02:52:08

	Start time	End time	Duration	Saturation:		Pulse Range:	
				Onset	Low	Low	High
1	08-25 01:17:07	01:17:31	00:00:24	98	93	75	82
2	08-25 01:19:43	01:20:07	00:00:24	97	91	65	77
3	08-25 01:37:51	01:38:11	00:00:20	98	89	61	69
4	08-25 01:38:19	01:38:55	00:00:36	97	88	62	81
5	08-25 01:39:03	01:39:35	00:00:32	95	81	62	83
6	08-25 01:39:47	01:39:59	00:00:12	97	88	61	68
7	08-25 01:40:03	01:40:15	00:00:12	87	83	62	75
8	08-25 01:40:19	01:40:39	00:00:20	93	85	65	81
9	08-25 01:40:51	01:41:15	00:00:24	95	84	67	78
10	08-25 01:44:03	01:44:15	00:00:12	94	90	65	75
11	08-25 01:45:07	01:45:23	00:00:16	94	90	70	75
12	08-25 01:56:11	01:56:31	00:00:20	98	87	61	69
13	08-25 01:56:35	01:57:03	00:00:28	96	80	58	65
14	08-25 01:57:11	01:57:43	00:00:32	96	81	57	81
15	08-25 01:57:51	01:58:19	00:00:28	96	86	60	72
16	08-25 01:58:27	01:58:59	00:00:32	96	81	57	69
17	08-25 01:59:03	01:59:27	00:00:24	93	82	58	69
18	08-25 01:59:31	01:59:51	00:00:20	91	84	58	77
19	08-25 01:59:59	02:00:27	00:00:28	94	86	60	82
20	08-25 02:00:35	02:00:55	00:00:20	97	88	61	70
21	08-25 02:00:59	02:01:27	00:00:28	96	85	60	76
22	08-25 02:01:31	02:02:07	00:00:36	95	85	58	80
23	08-25 02:02:19	02:02:59	00:00:40	97	84	60	90
24	08-25 02:03:31	02:03:59	00:00:28	98	90	60	69
25	08-25 02:04:03	02:04:19	00:00:16	91	87	57	74
26	08-25 02:08:51	02:09:03	00:00:12	95	84	64	66
27	08-25 02:09:07	02:09:39	00:00:32	80	73	66	79
28	08-25 02:10:03	02:10:39	00:00:36	96	80	64	75

Comment:

Doctor:

Figure 3.19E Desaturation report

## ◆ ECG Waveform Review

Click on "ECG" to enter into ECG waveform review screen, as shown in figure 3.20.

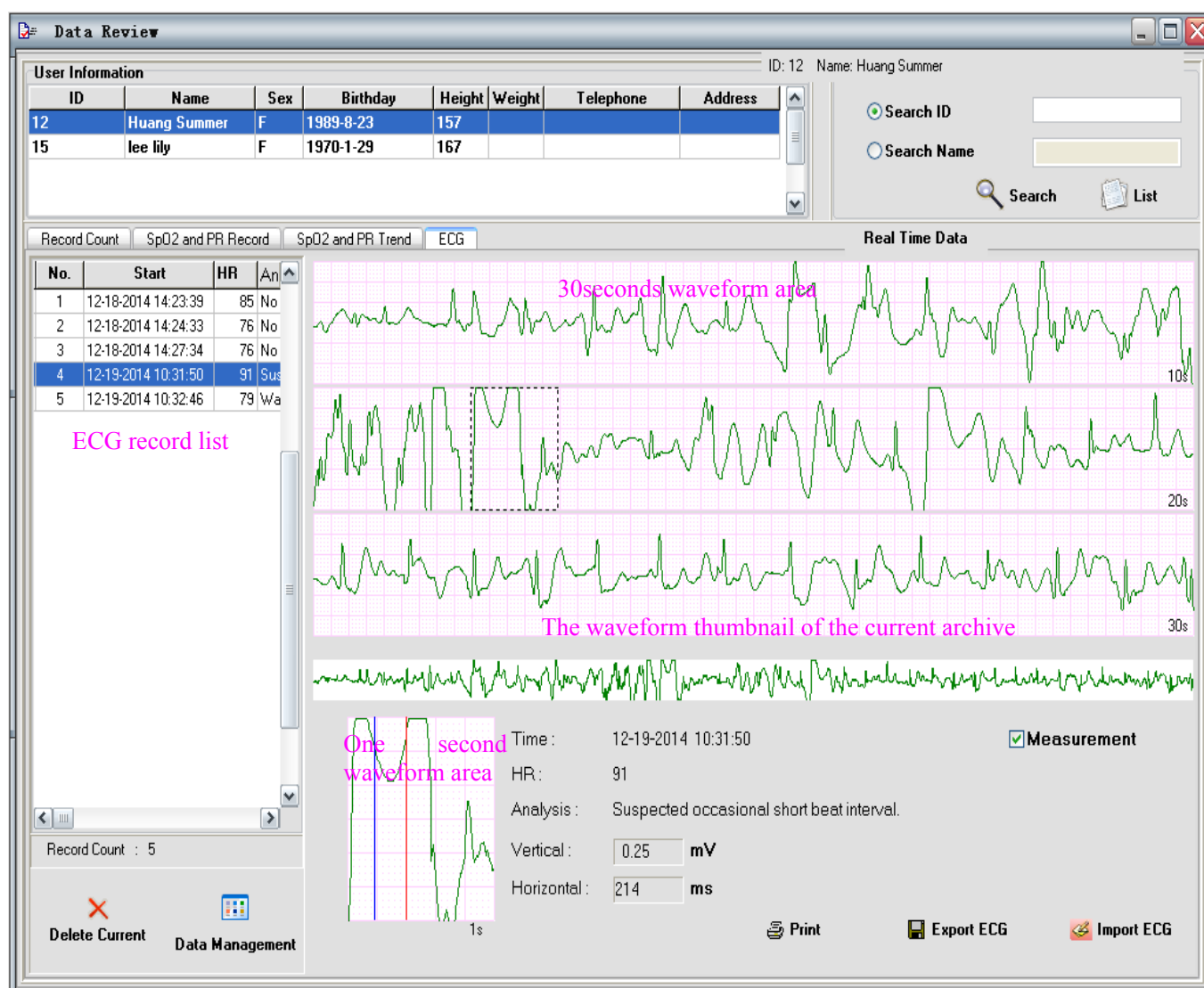



Figure 3.20A ECG waveform review (one segment of waveform)

In the review screen for real time received ECG waveform, the user can review the ECG waveform, measurement result, and the measured voltage difference (vertical) and time difference (horizontal) value, as well as print ECG waveform report, as shown in figure 3.21A.

Click on "☒ Measure" icon, and click any point on "One second waveform area" to measure voltage difference (vertical) and time difference (horizontal) value.

Locate the cursor on "Waveform thumbnail" area, and "Click to display all waveform" appears, then click it to enter into (all) ECG waveform review screen, as shown in figure 3.20B. Click icon " on lower right corner in figure 3.20B to return to ECG waveform review screen. Note: all ECG waveform means all ECG data records (waveform) on the patient account for the real-time data or device data.

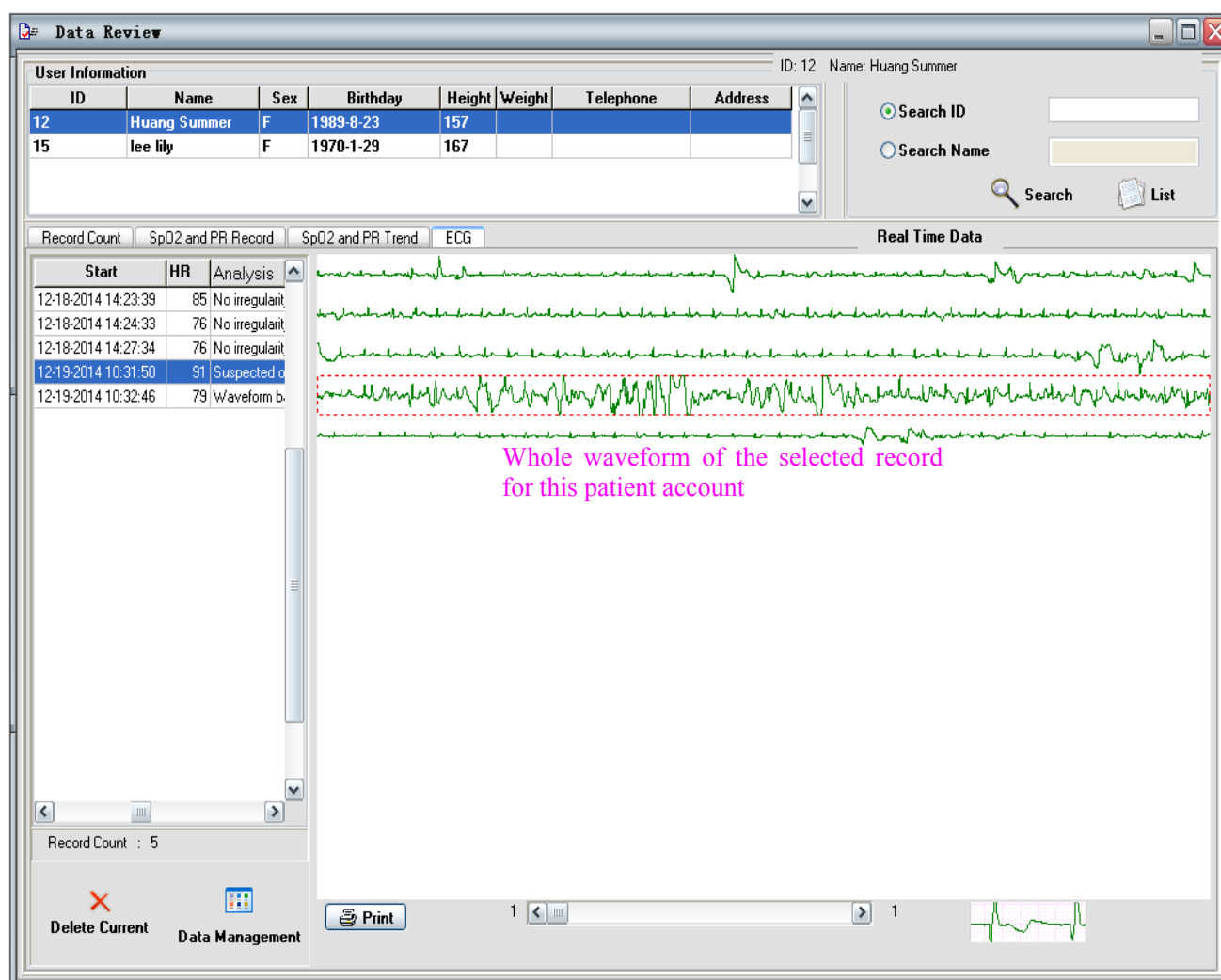


Figure 3.20B ECG waveform review (whole waveform)

In figure 3.20B, right click on any point of the waveform(which is encircled within a red dashed frame) to enlarge it, then the screen enters back into figure 3.20A.

In figure 3.20A and figure 3.20B, click on "**Print**" icon, the printable waveforms are as shown in figure 3.21A and figure 3.21B respectively.

#### Icon description:

- ✧ Print "**Print**": click it to print the current ECG waveform report.
- ✧ Export ECG "**Export ECG**": click it to export the current ECG data record to a data file (the file extension name will be ".ecg300").
- ✧ Import ECG "**Import ECG**": click it to import or restore the ECG data (".ecg300" format) to the current patient account.

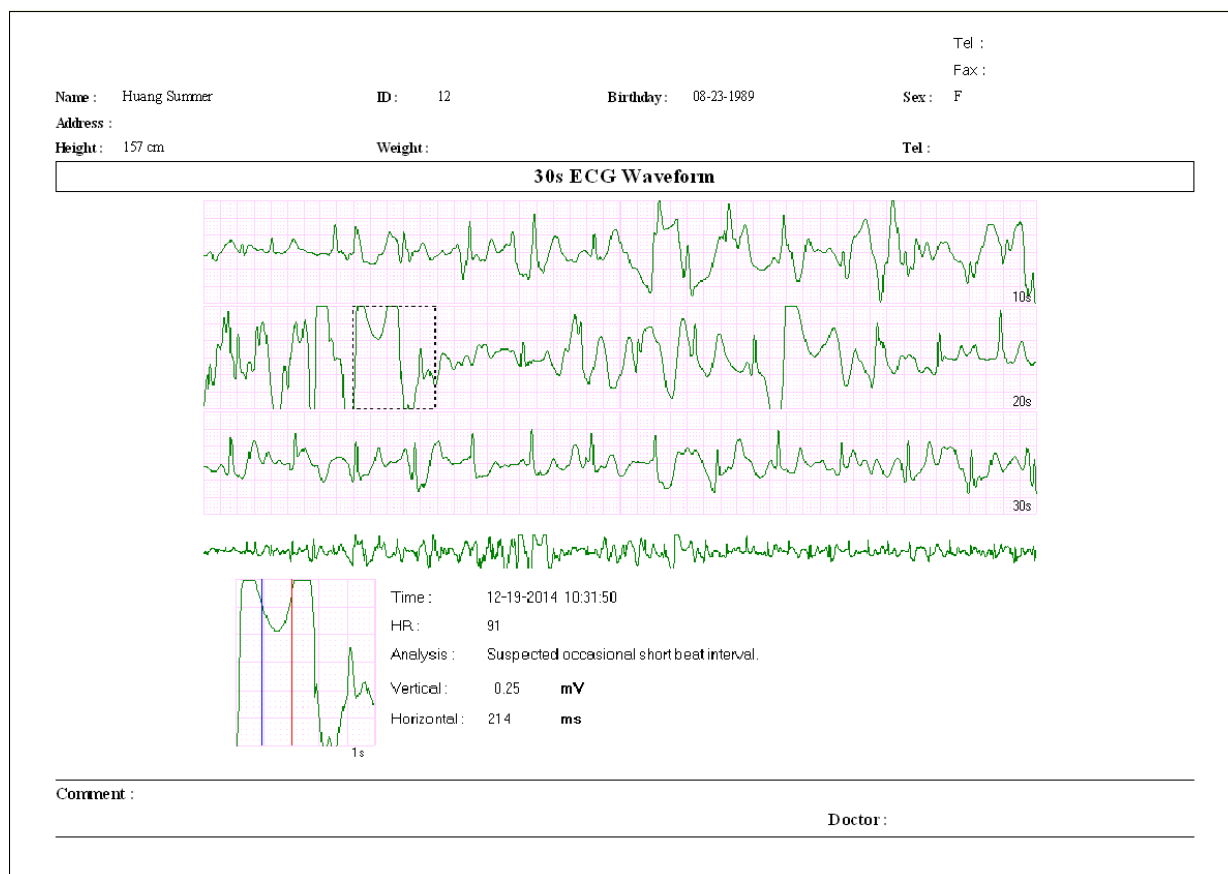


Figure 3.21A Report of 30s ECG waveform

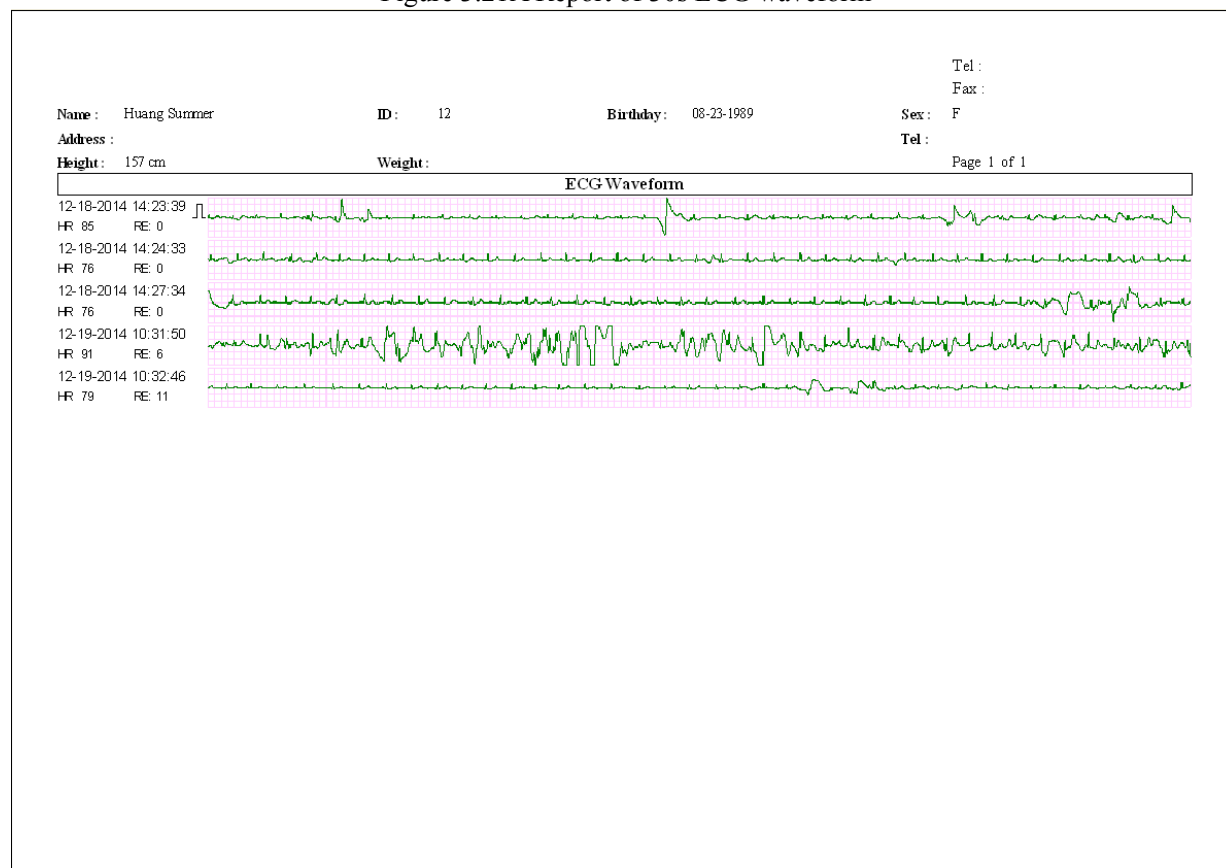


Figure 3.21B Report of all ECG waveform

In the report, "HR" is heart rate, "RE" is the number of measurement result. If RE is 0, it means no irregularity found; if RE is not 0, it means there is/are some irregular heart beats, then please view the enlarged waveform where displays the measurement result.

### 3.8 Help

On main menu window, click "Help" button to bring up the pull-down sub-menu, as shown in figure 3-22. Selecting the sub-menu will pop up the corresponding window.

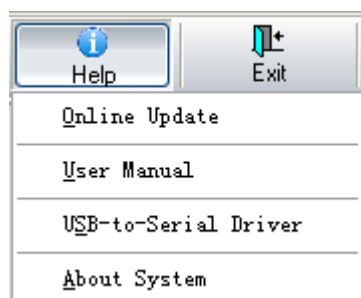


Figure 3.22 Help menu

#### ◆ Online Update

If the internet is accessible, then click "Online Update" to check if the current version is the latest software version. If it's checked as the latest version, then figure 3.23A pops up. If not, then figure 3.23B will pop up.

Note: do not operate the Spot-Check Monitor Data Manager when updating the software, please wait for about 2 minutes.



Figure 3-23A



Figure 3-23B

If the internet is not accessible, then click "Online Update" will show connection failure, as shown in figure 3-23C.

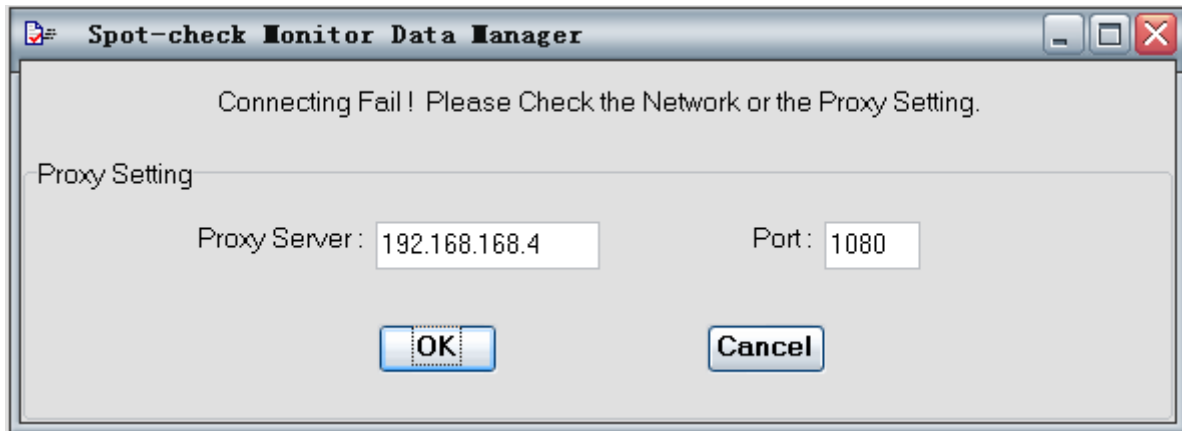


Figure 3-23C Connecting Fails

#### ◆ User Manual

On sub-menu, click on "User Manual", then the User Manual for Spot-Check Monitor Data Manager pops up, which is a document with ".pdf" format.

Note: your computer should install PDF reader, or the User Manual can not be opened.

#### ◆ USB-to-Serial Driver

Click it to install the factory provided USB-to-Serial Driver, the installation may last 36 seconds. Please plug out the cable of USB device when installing USB-to-Serial Driver.

#### ◆ About System

Click it to view software information (including software version, disk space and so on.)



## Error Codes

Error Codes	Possible Causes	Solutions
Please set the display resolution of the screen as 1024 x 768.	<ul style="list-style-type: none"> <li>Your computer's display resolution doesn't meet the application software requirement.</li> </ul>	<ul style="list-style-type: none"> <li>Please set the display resolution of the screen as 1024 x 768, or higher.</li> </ul>
Query term error. Please reenter.	<ul style="list-style-type: none"> <li>Incorrect or invalid term entered</li> </ul>	<ul style="list-style-type: none"> <li>Reenter query term.</li> </ul>
Please enter ID.	<ul style="list-style-type: none"> <li>No ID number</li> </ul>	<ul style="list-style-type: none"> <li>Enter ID number before save.</li> </ul>
Please enter name.	<ul style="list-style-type: none"> <li>No name</li> </ul>	<ul style="list-style-type: none"> <li>Enter the patient name before save.</li> </ul>
Please select Archive!	<ul style="list-style-type: none"> <li>No archive</li> <li>No archive selected</li> </ul>	<ul style="list-style-type: none"> <li>Please create a new patient record.</li> <li>Select an archive.</li> </ul>
Please choose data to add!	<ul style="list-style-type: none"> <li>No record selected.</li> </ul>	<ul style="list-style-type: none"> <li>Select records;</li> </ul>
Fail to connect the device, Please try again.	<ul style="list-style-type: none"> <li>USB driver not installed or mismatched;</li> <li>Your selection of device type is wrong;</li> <li>The data cable is not connected well with device;</li> <li>The monitor is not stayed in the specified status;</li> <li>USB interface damaged;</li> </ul>	<ul style="list-style-type: none"> <li>Please re-install the software: Spot-Check Monitor Data Manager;</li> <li>Please choose the device type according to your monitor;</li> <li>Make sure the connection of data cable is well at both side;</li> <li>Quit from the menu setting or trend view to the default measuring mode at monitor side.</li> </ul>
Com Error (Uploading data timeout and no response)	<ul style="list-style-type: none"> <li>The monitor is not stayed in the specified status;</li> <li>The data cable is not connected well;</li> <li>The monitor's malfunction;</li> </ul>	<ul style="list-style-type: none"> <li>Make sure the connection of data cable is well at both side;</li> <li>Quit from the menu setting or trend view to the default measuring mode at monitor side.</li> <li>Please contact the local dealer;</li> </ul>

Can not find COM port, please install COM port!	<ul style="list-style-type: none"> <li>• The data cable is not connected well with device;</li> <li>• USB driver is not installed;</li> <li>• The monitor's malfunction;</li> </ul>	<ul style="list-style-type: none"> <li>• Make sure the connection of data cable is well at both side;</li> <li>• Please re-install the software: Spot-Check Monitor Data Manager;</li> <li>• Please contact the local dealer;</li> </ul>
Check probe	<ul style="list-style-type: none"> <li>• PC USB port malfunction;</li> <li>• Failure connection between wireless adapter and the monitor;</li> <li>• Wireless adapter malfunction;</li> <li>• Probe off;</li> <li>• Probe is not well connected;</li> <li>• The monitor malfunction;</li> <li>• The third party wireless driver is installed;</li> </ul>	<ul style="list-style-type: none"> <li>• Plug into another port to try again;</li> <li>• Check the wireless adapter;</li> <li>• Contact the local dealer;</li> <li>• Reconnect the probe;</li> <li>• Contact the local dealer;</li> <li>• Contact the local dealer;</li> <li>• Uninstall the third party wireless driver, such as "IVT".</li> </ul>
Fail to update software	<ul style="list-style-type: none"> <li>• Network disconnected;</li> <li>• The antivirus program stops the downloading;</li> </ul>	<ul style="list-style-type: none"> <li>• Recheck the network connection, and re-click "Online Update";</li> <li>• When downloading the updated file (SCDM_files.exe), if the antivirus program (eg. 360 antivirus program) shows it as the computer virus, then choose "Trust in" and re-click "Online Update".</li> </ul>