

# 'Quick' User Guide for Hingmed WBP02A and Software

(Please also read all instructions in the Original Instruction manual, including warnings and all other important information)



## **1. Install HINGMED PC software**

### **Before Start**

Please uninstall any previous version of HINGMED PC software in the computer.

### **Remove previous program**

There are two ways to remove the previous installation.

#### **Windows XP:**

Step 1: Click <Start>/<Settings>, then select Control Panel.

Step 2: In the Control Panel window, double click <Add>/<Remove> programs icon.

Step 3: Find out the item HINGMED English software x.x.x.x then remove it.

#### **Windows Vista / Win 7:**

Step 1: Click <Start>/<All programs>, then select <HINGMED English> folder.

Step 2: Press Remove icon and the program will be uninstalled automatically.

### **Install HINGMED PC software**

The following steps guide the user to install the Hingmed PC software.

#### **Step 1:**

Put CD into CD drive, an auto-install program will guide the user step by step to complete the installation. If the program is not automatically installed, you can look for the “setup.exe” file in the CD and double click on it ,The installation wizard will note that if install the NET.2.0 Framework in Figure1.select “Yes” Then the dialog window will show up as in Figure2.

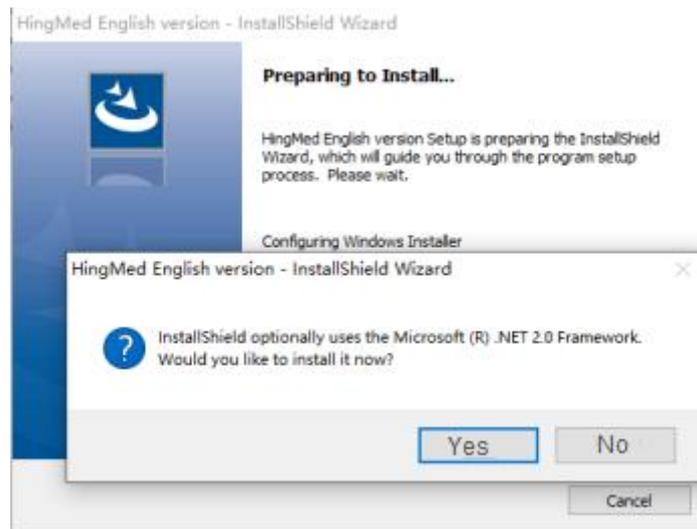


Figure 1



Figure 2

**Step 2:** When the setup is prepared, the dialog will show up as seen in figure3; It is recommended to Accept the terms of the license agreement ,then clicking <Next>, the installation will proceed automatically. dialog box.

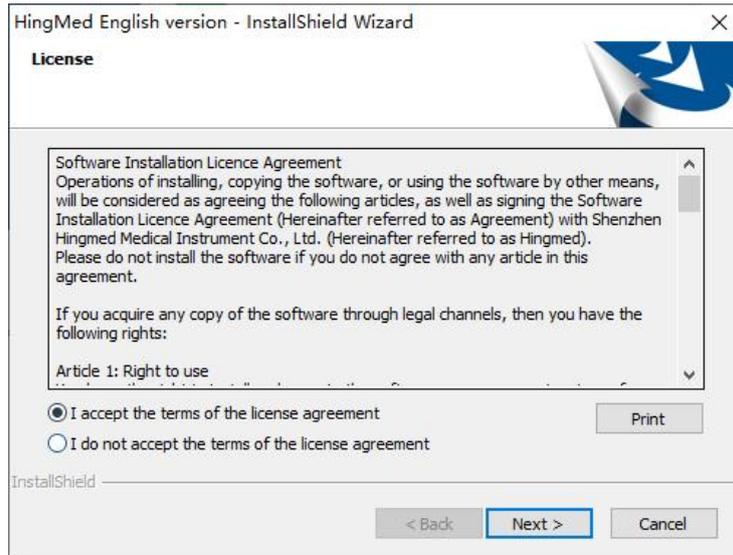


Figure 3

**Step 3** After the PC software setup successful ,it will jump to the dialog which set up the driver of the device ,the dialog will show up as seen in figure4.The installation will proceed automatically.Select “I accept the the agreement” and select “Next >” ,the dialog will show up as seen in figure 5



Figure 4

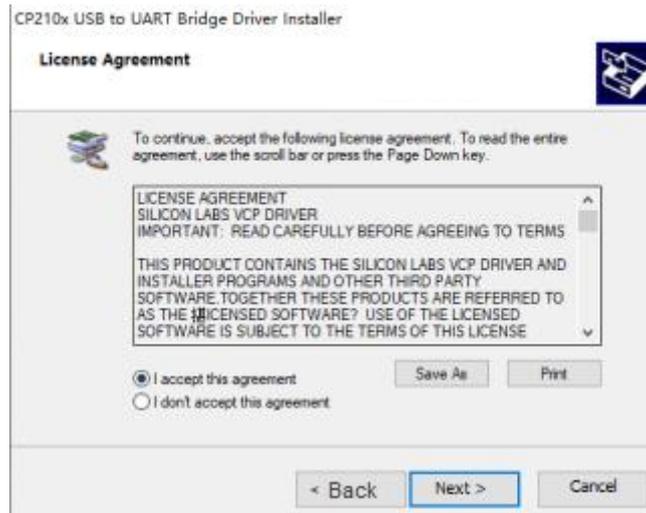


Figure 5

Step 5. The installation will proceed automatically. After successful installation, the dialog will show up as seen in figure 6, click <Finish>.



Figure 6

## 2. HingMed ABPM software User Interface

Below is the main screen of HingMed ABPM software.

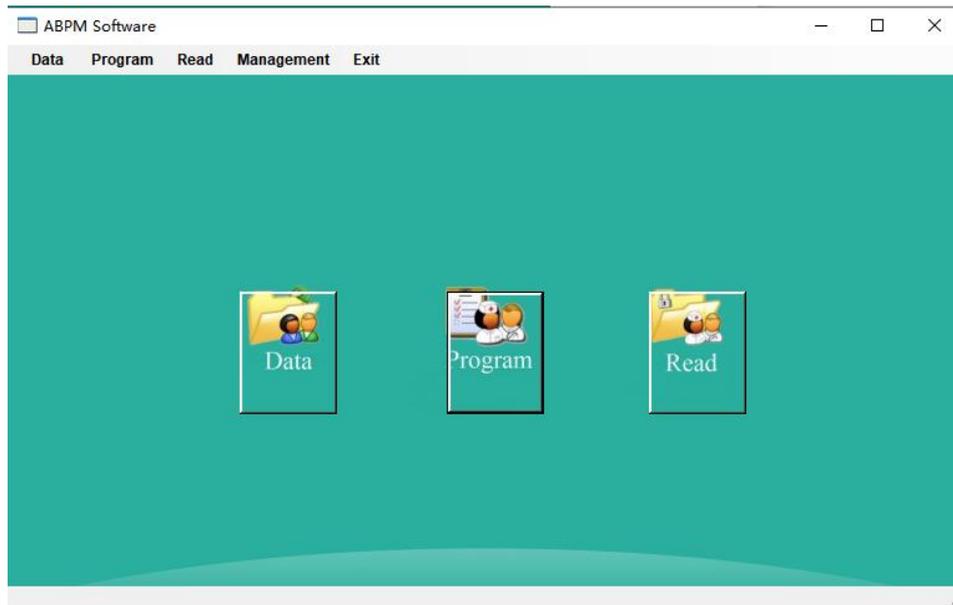


Figure 7

## 2.1 Data

Clicking <Data> button, will display screen as seen in figure 8.

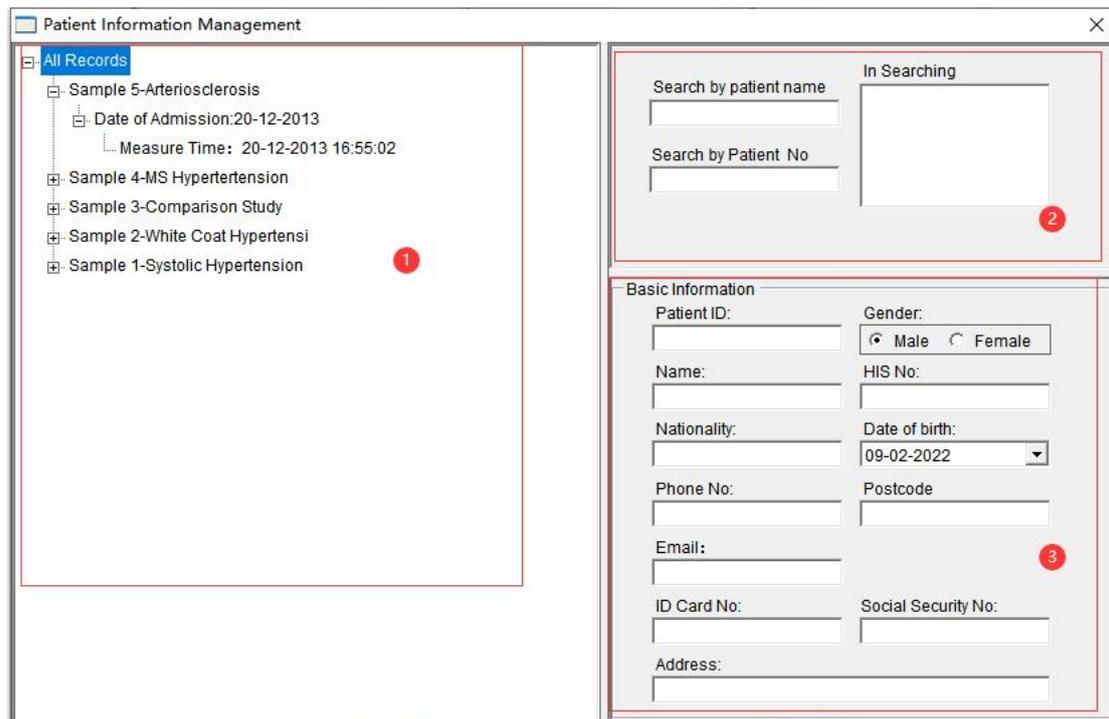


Figure 8

(1) All records

A menu of all patients whose data is recorded is shown. Selecting a specific patient will display patient information. Patient information in area 3 can be modified if necessary.

(2) Search area

Search by patient name or no to display patient information.

## 2.2 program

Click <Program> button, to display the dialog window as Figure 9, Selecting “Yes” will display the programming module as seen in figure 10

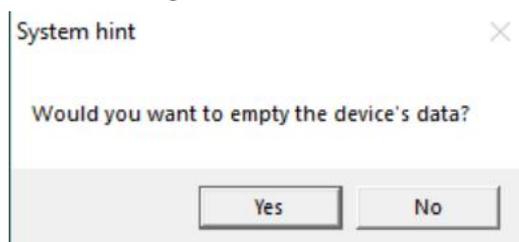


Figure 9

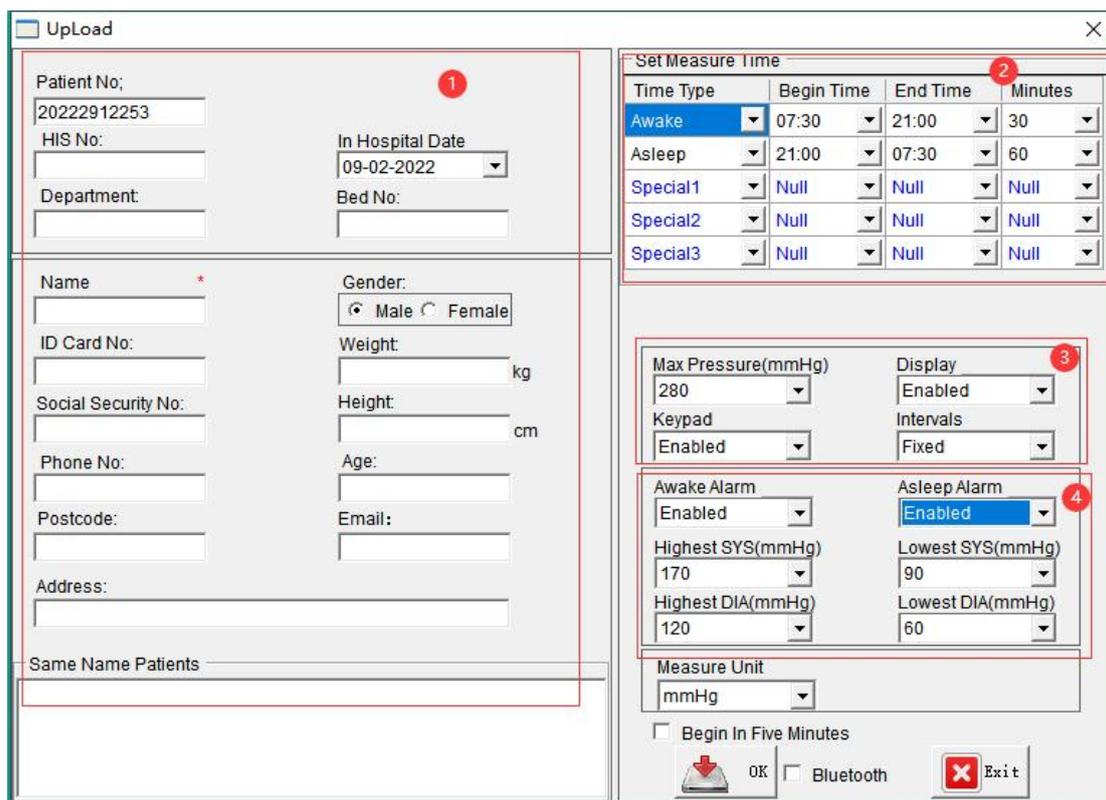


Figure 10

## 2.2.1 Information area

<Create patient identity >

Enter Patient Name and gender to create the patient’s identity before setting an ambulatory monitoring schedule to the device, The Patient No is automatically created by the system and does not need to be modified.

## 2.2.2 program Parameters

Set Measure time

User can set Day period, Night period and measurements interval in this dialog window. The selections of awake and asleep time are between 00:00 to 23:00. The measurement intervals can be set at 5,10,15, 20, 30 ,45,60,90 or 120 minutes.

If more specific measurement times are required, these can be set up from special 1 to special 3 options.

### 2.2.3 other Parameters

< max measurement>

The highest inflation pressure during measurements, can be set and programmed to the device. It is recommended to set the “max pressure” to 40mm Hg above the expected systolic value for the patient.

<display>

The user can set the screen to “Disable”, for the device to show only time and battery capacity. It is recommended to set the display to “Enabled”, so that the user can view the BP measurement, time and battery capacity at all times.

<Keypad>

The “Keypad” can be set as “Disabled” or “Enabled”. It is recommended to set it as “Disabled” to prevent the patient from measuring abnormally during the monitoring period.

<Time Interval>

User can set the “Interval” as “standard” or fixed mode. It is recommended to set as the “standard” mode where the interval time has +/-2min of deviation. In the “fixed” mode there is no deviation.

### 2.2.4 Alarm

The “awake alarm” and “asleep alarm” can be enabled to alert the user with a beep if BP measurements fall outside the minimum and maximum range of the programmed systolic and diastolic values which can be set up by the user.

On completing the process above, press the <OK> button to program the setting to the device. All previous data saved in the device will be deleted and the new patient No will be saved to the device

On completion the message shown on figure 11 will be displayed.



Figure 11

## 2.3Read

### Before reading records

Connect the device and PC via USB cable.

Step 1: Click on the “Read” icon to display the <Read> dialog windows as seen in figure 12.

Figure 12

Step 2: Pressing the <Read> button, it will display the screen seen in figure 13. The BP records will upload from device to the PC.

Figure 13

Step 3: The chart below will be displayed. The user can View data analysis and print report

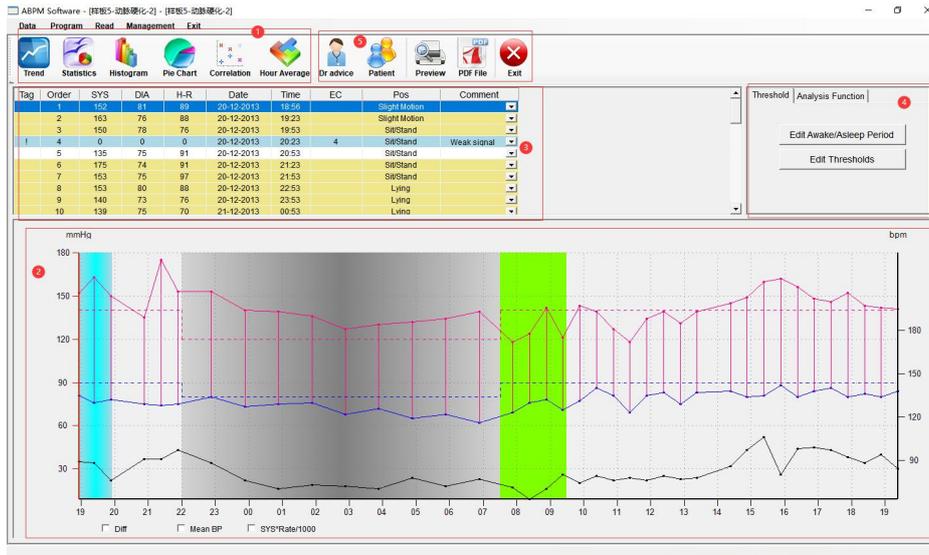


Figure14

## Step 4 View data analysis

### A. statistics figure

Press <statistics>button, to view a statistics table, as the figure below

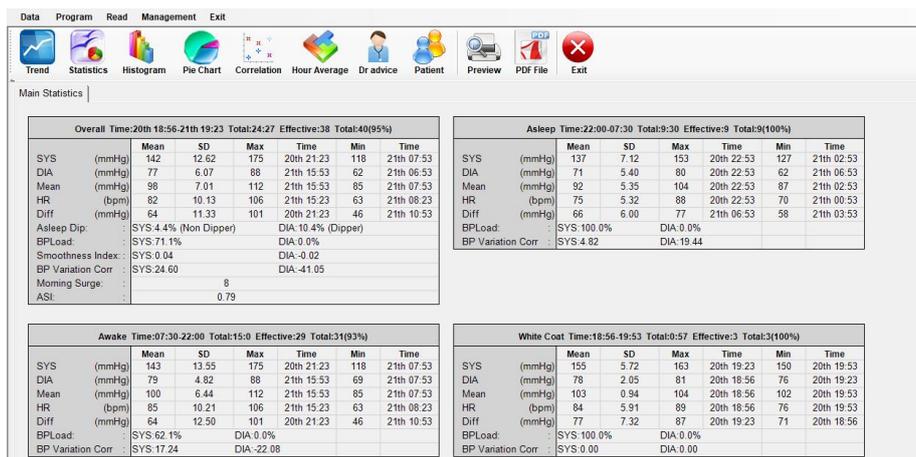


Figure 15

Press <histogram>button, to view a series of bar-charts as per figure 16.

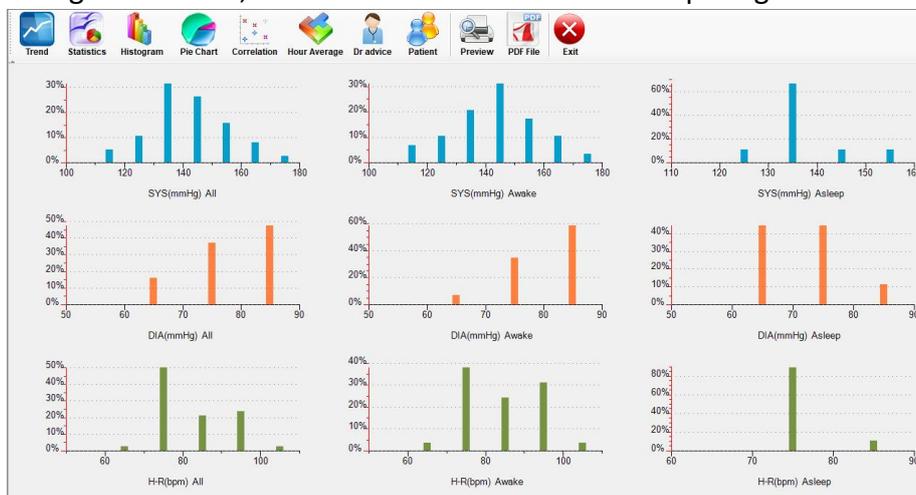


Figure 16

Press <pie Chart>to display a series of pie-charts as per figure 17

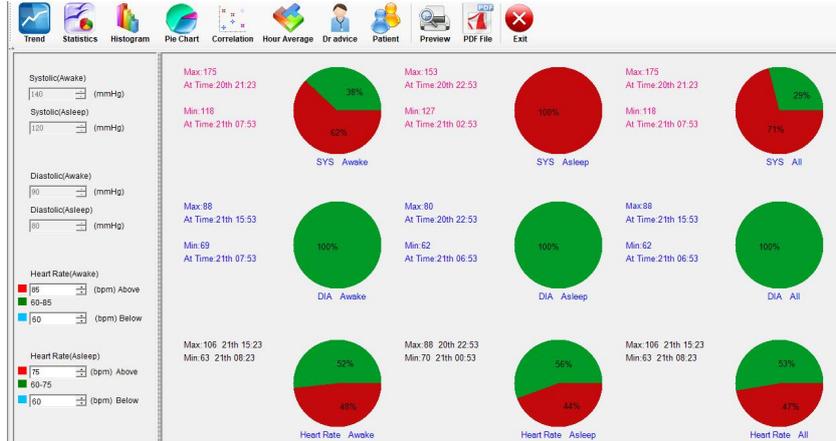


Figure 17

Press <Correlation>button, to display a series of correlation graphs as per figure 18

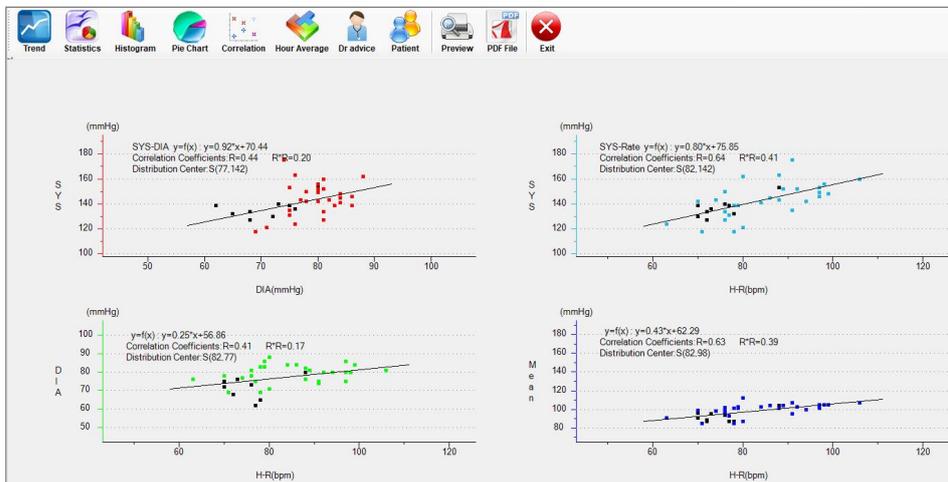


Figure 18

Press the <Hour average>button to display an hourly systolic/diastolic graph as per figure 19

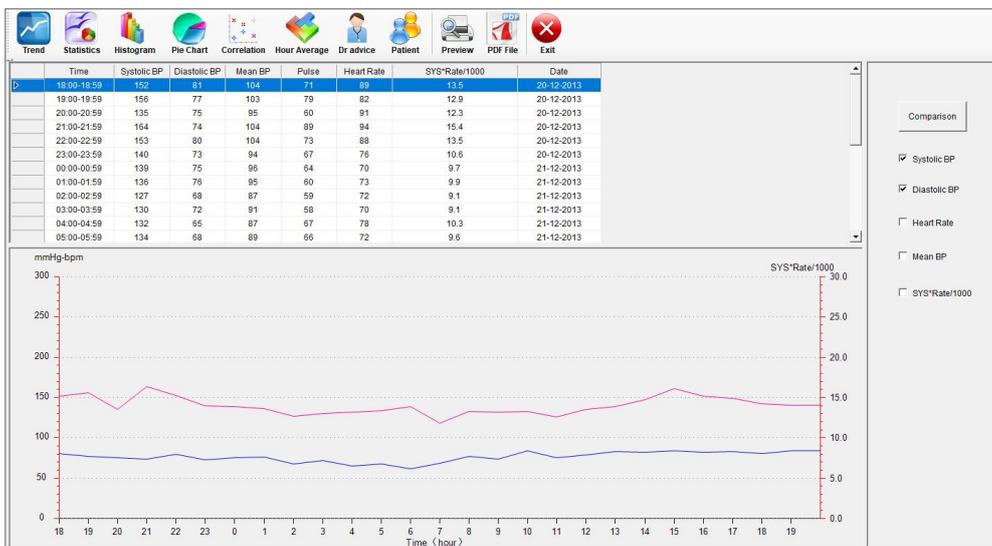


Figure 19

### B.Trend figure function

The sky blue background is the white-coat period, representing the first hour of measuring

The light gray Shadow represents the “asleep” period

The green Shadow represents the morning surge period which are the first two hours after getting up from bed.

The more detail refer to see 2.4.1.3 color section below.

### C. Records

This area displays measurement records during the monitoring period,including systolic and diastolic values,heart rate, measurement times , position and comments

### D.Threshold and analysis item selection

Pressing the <Edit Awake/Asleep Period>button, enables modifying the Awake and Asleep times. Then press the <Update> button to complete this modification as shown in Fig 20.

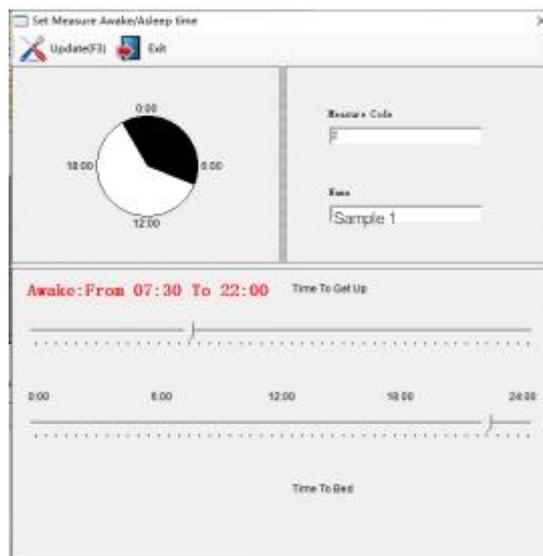


Figure 20

### <Edit Threshold>

Press <Edit Thresholds>,to display the dialog windows as per figure 21. BP thresholds according to NICE or other guidelines can be set here. Press the <update> button to confirm these values.

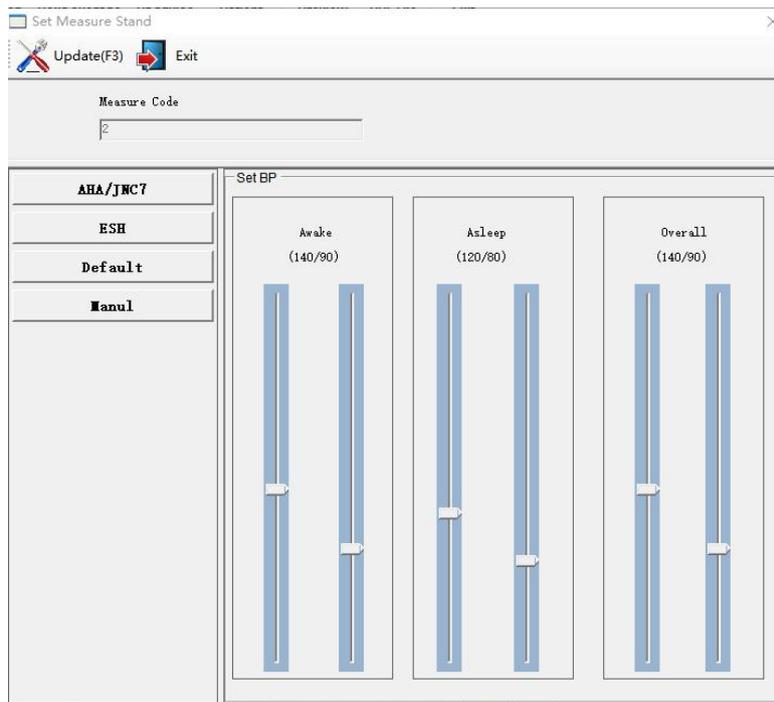


Figure 21

### Step 5 Give some Advice and print

Press the “Doctor’s advice” button to input any relevant advice offered to the patient. Click “save” to display this on the final report.



Figure 22

### <Preview>Button

This function allows the user to select the level of detail(standard or general summary) displayed on the final report and allows the user to identify which of the above information (Statistics,Trend,Histogram,Pie,Correlation, Average,Detail,Position,Doctor sign) appears on the final report.

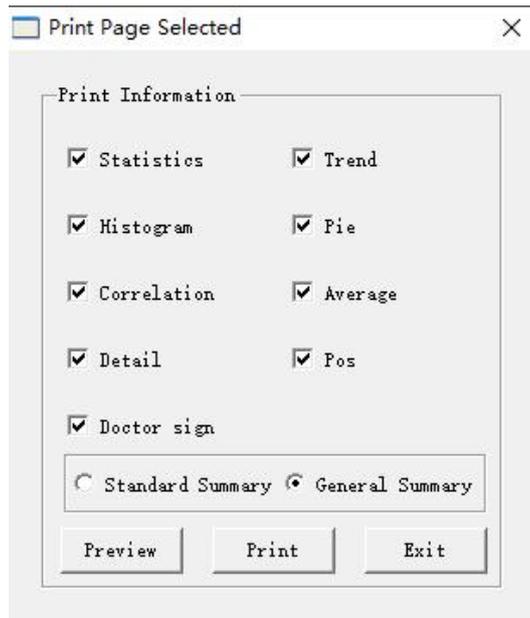


Figure 23

### <PDF file>Button

Press to select the print page information and save the content to the PDF report.

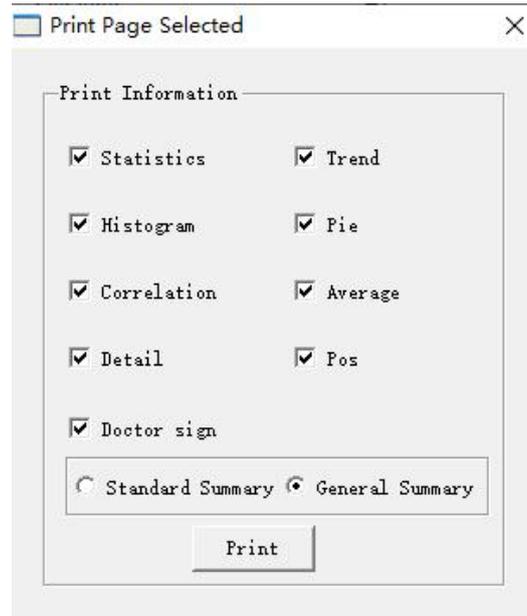


Figure 24

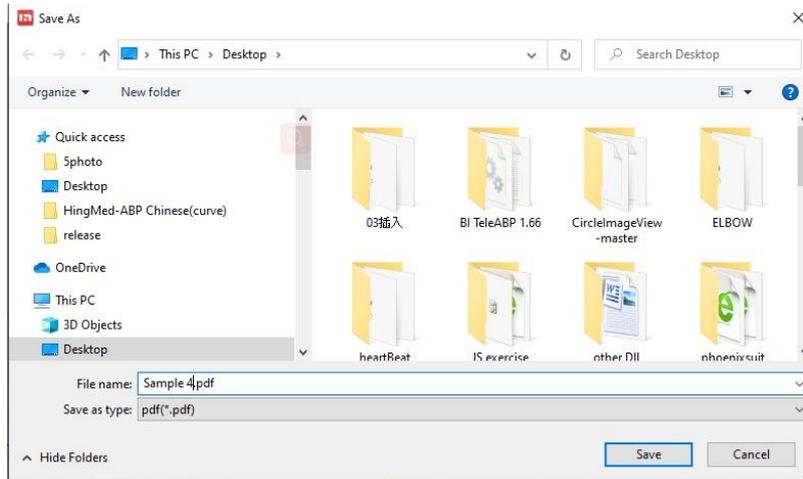


Figure 25

## 2.4Management

Click<Management>button,then select “configure”.it will show up as seen in figure 26

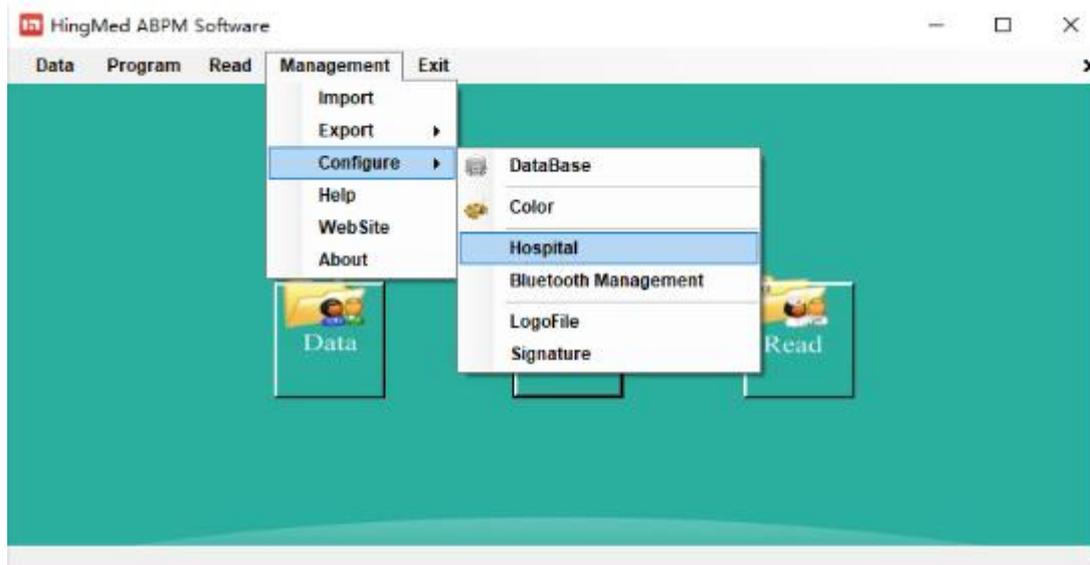


Figure 26

### 2.4.1Management hospital information

Click sub-menu”hospital”, the user can key in the hospital Name,Address, Internet,Telephone.These information will show on the report.

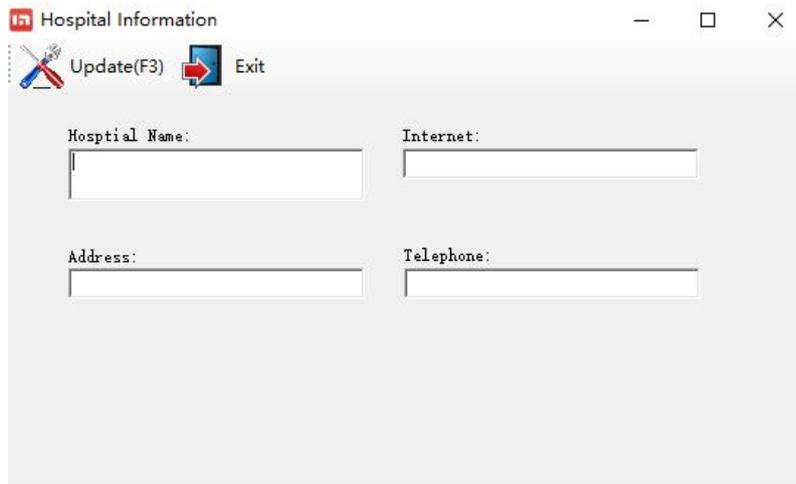


Figure 27

#### 2.4.1.1 Upload the Logo file

Click sub-menu "Logofile" button, it will show up as seen in figure 28. User can upload a file which the format is ".png" of as the hospital logo, it will show on the report.

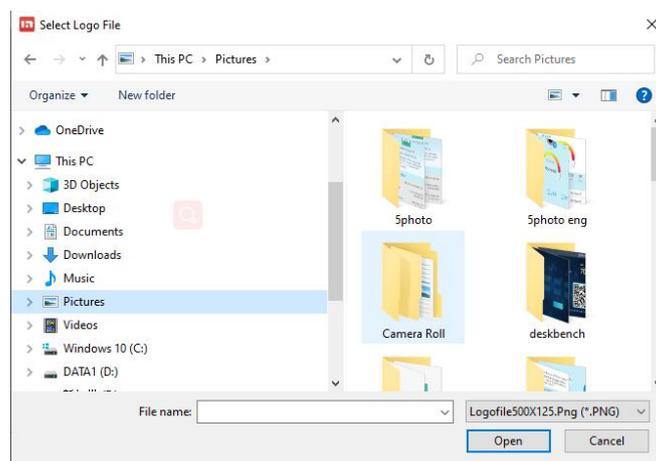


Figure 28

#### 2.4.1.2 Upload the signature file

Click sub-menu "Signature" button, it will show up as seen in figure 29. User can upload a file which the format is ".png" of as the hospital logo, it will show on the report.

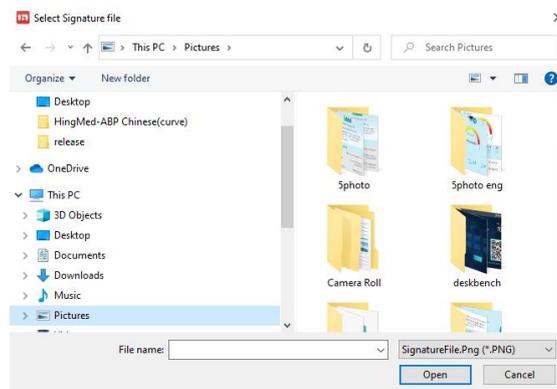


Figure 29

### 2.4.1.3 color

Clicking the sub-menu "Color" button, will display as seen in figure 30. This can be used to view or modify the colours representing the various functions that appear within the "Statistic" feature.

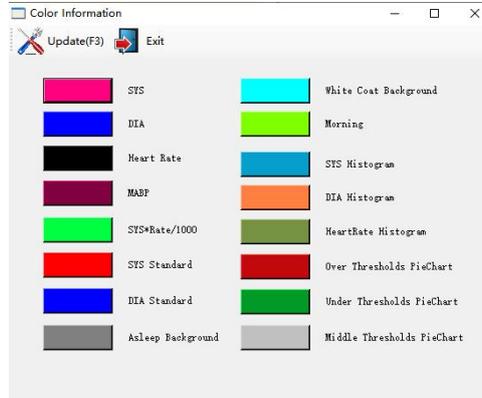


Figure 30

## 3.Scenarios of HingMed ABP software

### Scenario 1:login the patient information and program

**Step1:** Connect the device and PC via USB cable and click the "program" button, the dialog window will show as below.

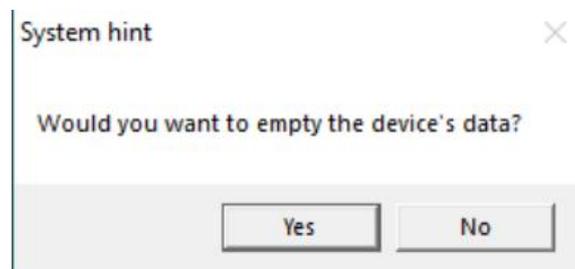


Figure 31

**Step 2:**Parameters of configuration.

**UpLoad** (Close)

**Step 1**

Patient No: 2022210122959  
 HIS No:   
 Department:   
 In Hospital Date: 10-02-2022  
 Bed No:   
 Name: Hingmed \*  
 Gender:  Male  Female  
 ID Card No:   
 Weight:  kg  
 Social Security No:   
 Height:  cm  
 Phone No:   
 Age:   
 Postcode:   
 Email:   
 Address:   
 Same Name Patients:

**Step 2**

Time Type	Begin Time	End Time	Minutes
Awake	07:00	21:30	30
Asleep	21:30	07:00	45
Special1	Null	Null	Null
Special2	Null	Null	Null
Special3	Null	Null	Null

**Step 3**

Max Pressure(mmHg): 280  
 Display: Enabled  
 Keypad: Enabled  
 Intervals: Fixed  
 Awake Alarm: Disabled  
 Asleep Alarm: Disabled  
 Measure Unit: mmHg  
 Begin In Five Minutes

Step 4:   Bluetooth

Figure32

**Step2-1:**key in patient’s information

**Step 2-2:**Set ambulatory day and night measuring period,For example, set 07.00~ 21:30 with 30 minutes interval for awake time, 21:30~ 07.00 with 45 minutes interval for asleep time.

**Step2-3:**Set<max pressure>,<display>,<keypad>,<Intervals>,<Awake Alarm>,<Asleep Alarm>.

**Step2-4:** Click OK”button to set the configuration to the device. It will clear all data from the device memory. If successful, the dialogue window is shown as below.

**Step 3:** Fit the device on the arm of the patient, then push the middle button of the device to start measuring. After the measuring is completed, the BP value will shown on the screen. After that the device will automatically measure according to the program which set up on the step 2.

**Scenarios 2:Read records (when the programming parameters have been set on the same pc used for reading records)**

See section 2.3 for further information on this

**Scenarios 3:Read records (when the programming parameters have been set on a different pc to the one used for reading records)**

**Step 1:**Click the <Read>button on Read dialog window interface,to display as seen in figure 33,and select “Yes”.

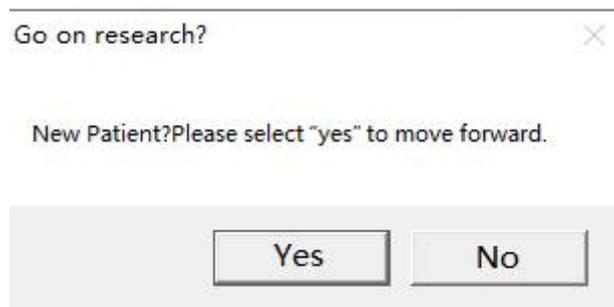


Figure 33

**Step 2:**Click “Confirm”button, as show in figure 34,it will start to upload the records from device.

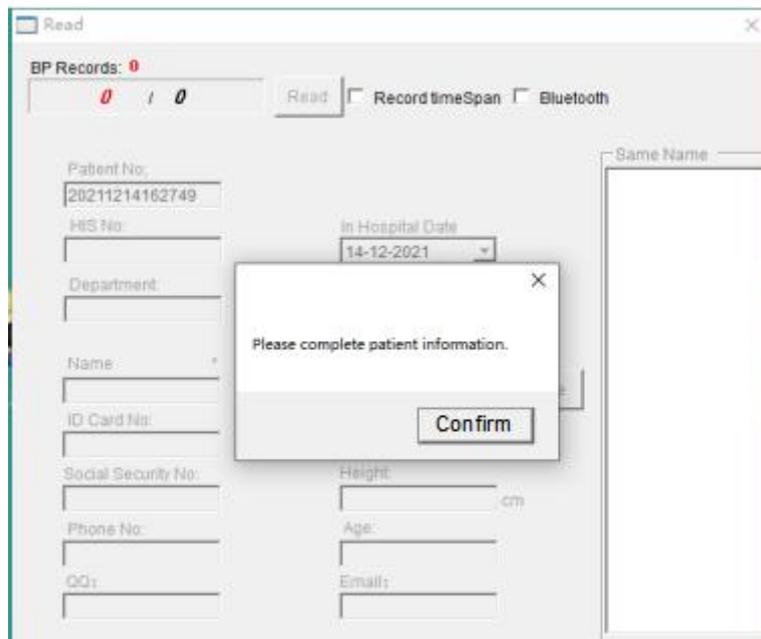


Figure 34

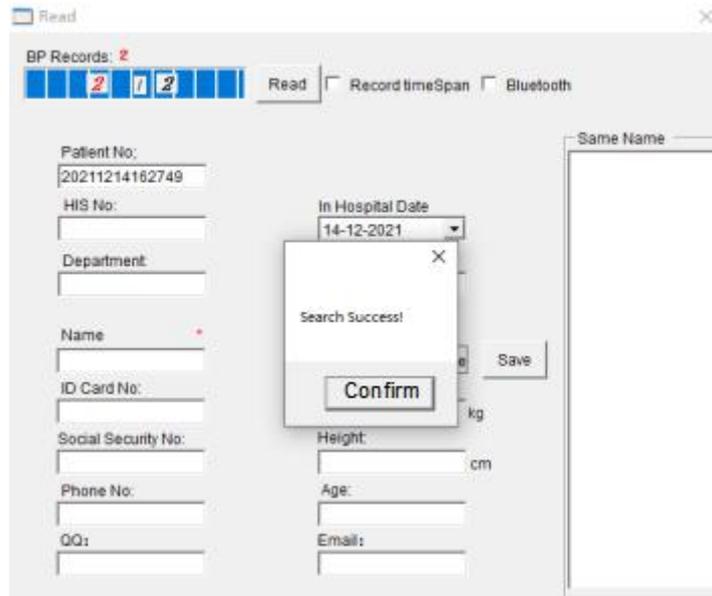


Figure 35

**Step 3:**After search success it will be displayed as in figure35. Click“Confirm” to display as in figure 36.

Step 3-1 Key in the patient information.

Step3-2 Click“Add”button to confirm.“Add Success!” will pop up

Step3-3 press “Confirm”to see report as shown in figure 14.

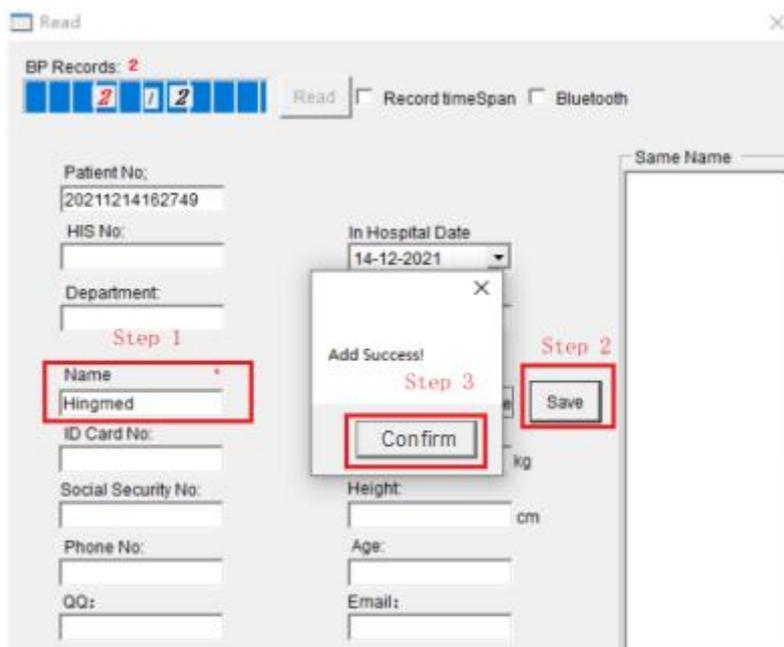


Figure 36

#### Scenarios 4:Research the records and view the records

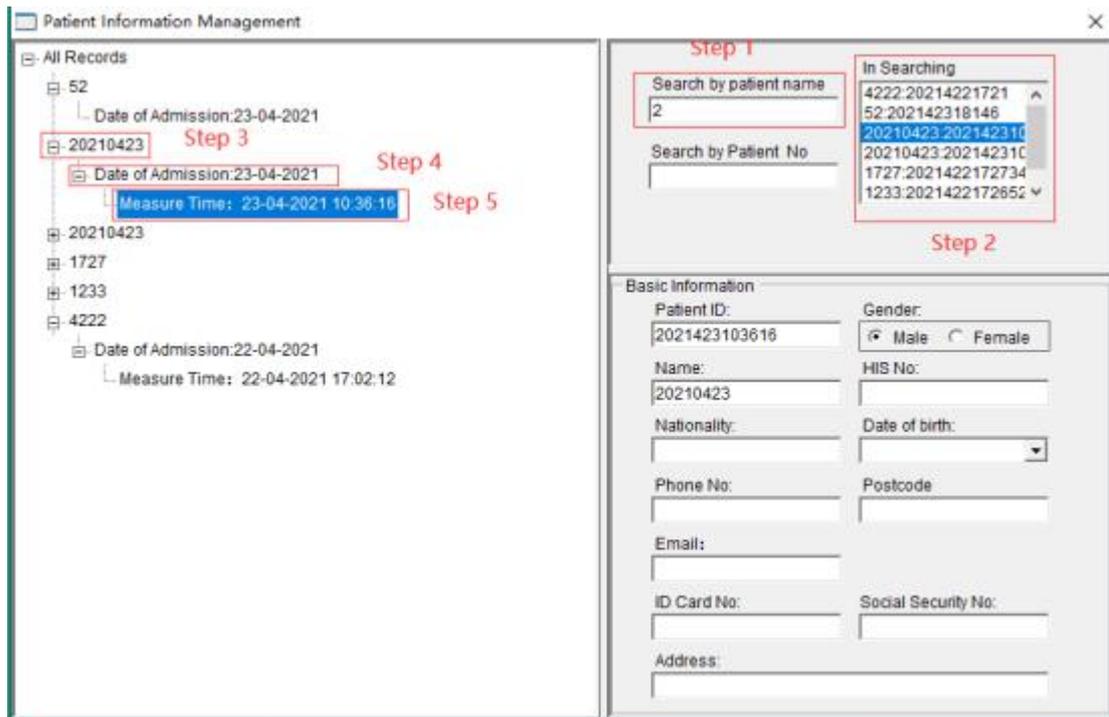


Figure 37

**Step 1:** key in the key word in search box

**Step 2:** view the search results and click one of the records

**Step 3:** click the related records ,to show the date of Admission

**Step 4:**click the the date of Admission,to show the measurement time

**Step 5:**double click the measurement time to display dialog window seen as figure 14.

**Step 6:**press the <preview>button then follow the instructions shown previously to print the report.

## Scenarios 5:Turn on or turn off device

### Turn on the device

Long press the the middle button for about 5seconds ;the screen will display the time.

### Turn off the device

In order to shut down the device, long press the middle button for 5 seconds;the screen will pop up “Whether want to shutdown” with options “Yes” “NO”.Press the appropriate button corresponding to “YES”or “NO” and then press the middle button to finally confirm shutdown.



**Note: EXCEPTION TO ABOVE**

The device is internally programmed to prevent shutdown during the following period; from 3 hours before the programmed “sleep” start time to 2 hours before the programmed sleep time

For example, if the night time is set to 22:00-7:00, the shutdown is prohibited during the period of 19:00-5:00. The monitor will display “EC66” if the middle button is long pressed.

If shut down during of the device is essential during the period identified above, use a data cable to connect to the computer to retrieve the uploaded data, and then long press to select shutdown.