

MedView

Software

User Manual

Ver 1.0

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1. GENERAL DESCRIPTION

The MedView contains a series of data management softwares which are designed according to different type of pulse oximeters/monitors. The series of softwares consist of three individual softwares those are MedView-OP-B, MedView-OP-C and MedView-OP-D.

MedView-OP-B: MD300K1/ MD300K1-E/ MD300K21/ MD300K12/ MD300M11/ MD300W1/ MD300W11

MedView-OP-C: MD300I/ MD300I2/ MD300I12/ MD300P/ MD2000A/ MD2000A-E/ MD2000A-V

MedView-OP-D: MD300C318/ MD300C316/ MD300W2

An entire operation system consists of one pulse oximeter/monitor, one computer, a piece of MedView software CD, and a USB cable. The waveforms and data saved in the device can be uploaded to a computer through the USB cable or Bluetooth® and managed by this software.

MedView software is convenient for users to view, manage and save data records including waveforms, pulse rates and analysis results. It provides the function of printing under patient administration and various modes.

Patient administration distinguishes datum from their IDs which range from 1 to 127. So it could save 127 patients' data at most. The records for the same ID will be regarded as the same patient's measurement. The ID number in "Data Info" is the ID number in the corresponding pulse oximeter/monitor, thus it can not be changed on the transmission software.

The instruction manual is applied to the three individual MedView softwares those have the similar operations..

The manual is illustrated by MedView-OP-D software and the MD300C318 Pulse Oximeter.

Tip: It is suggested that the software should be run on the **Windows XP®** 32 bit Edition with the patch **SP2/SP3**, **Windows 7** and **Windows Vista®** 32 bit Edition.

Notes:

- ✧ Read the manual carefully before running the software!
- ✧ Please make sure that there is at least one record saved in the Pulse Oximeter/Monitor before data upload.
- ✧ Power on the Pulse Oximeter/Monitor and set the mode of the device to data transmission.

2. SOFTWARE INSTALLATION

Put the attached installation CD into computer's CD driver, the CD will run automatically and then the following interface will appear, as shown in Figure 2-1.

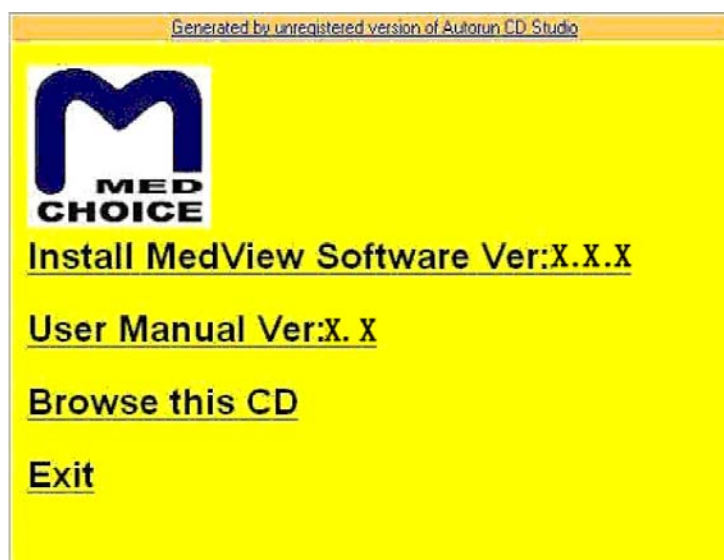


Figure 2-1

(1) Click "Install MedView Software Ver:X.X.X" in fig.2-1 to begin the installshield wizard of MedView Software. Then Figure 2-2 will appear.

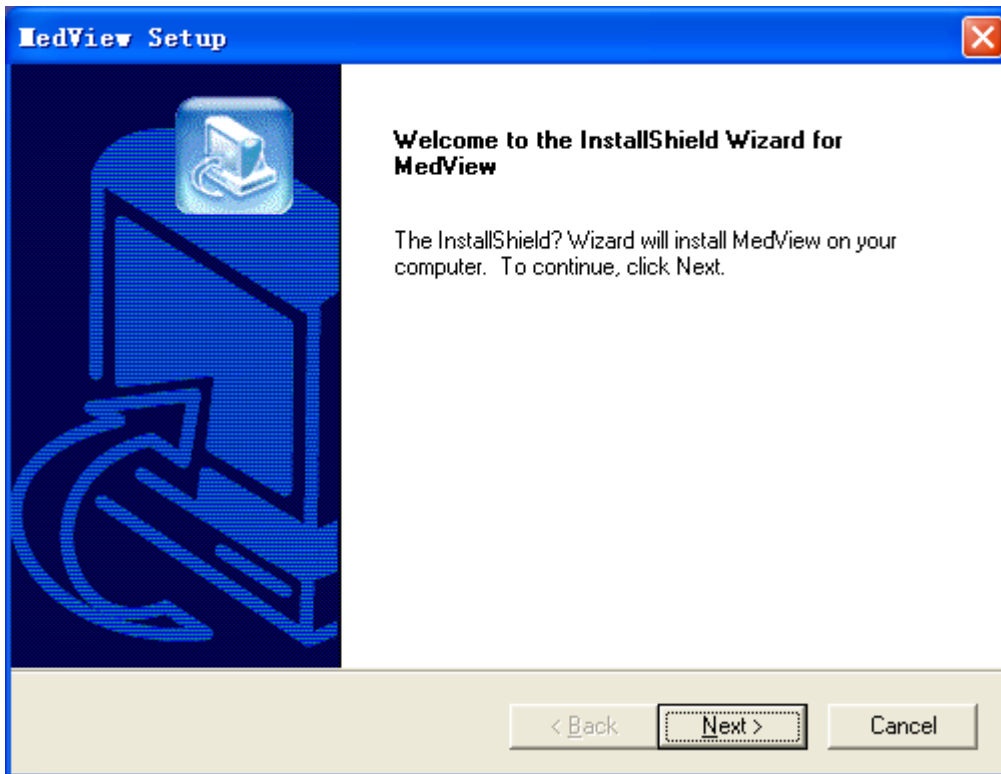


Figure 2-2

(2) Click "Next" button in Figure 2-2, then Figure 2-3 will appear.

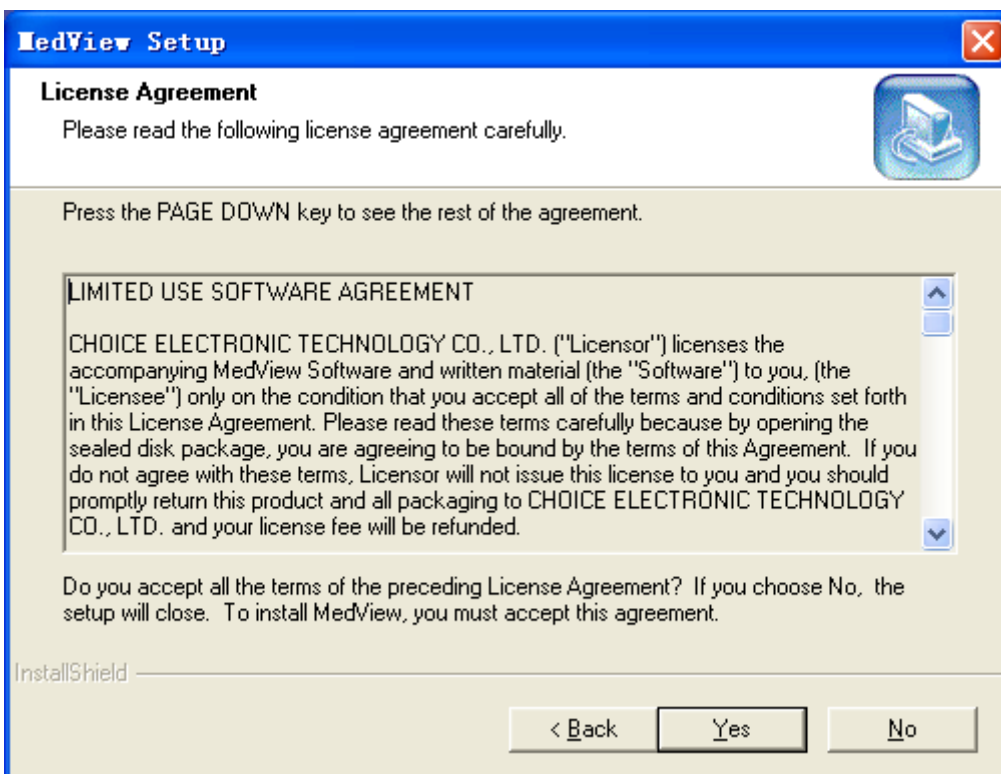


Figure 2-3

(3) Click “Yes” button to accept the license agreement in Figure 2-3, then Figure 2-4 will appear.

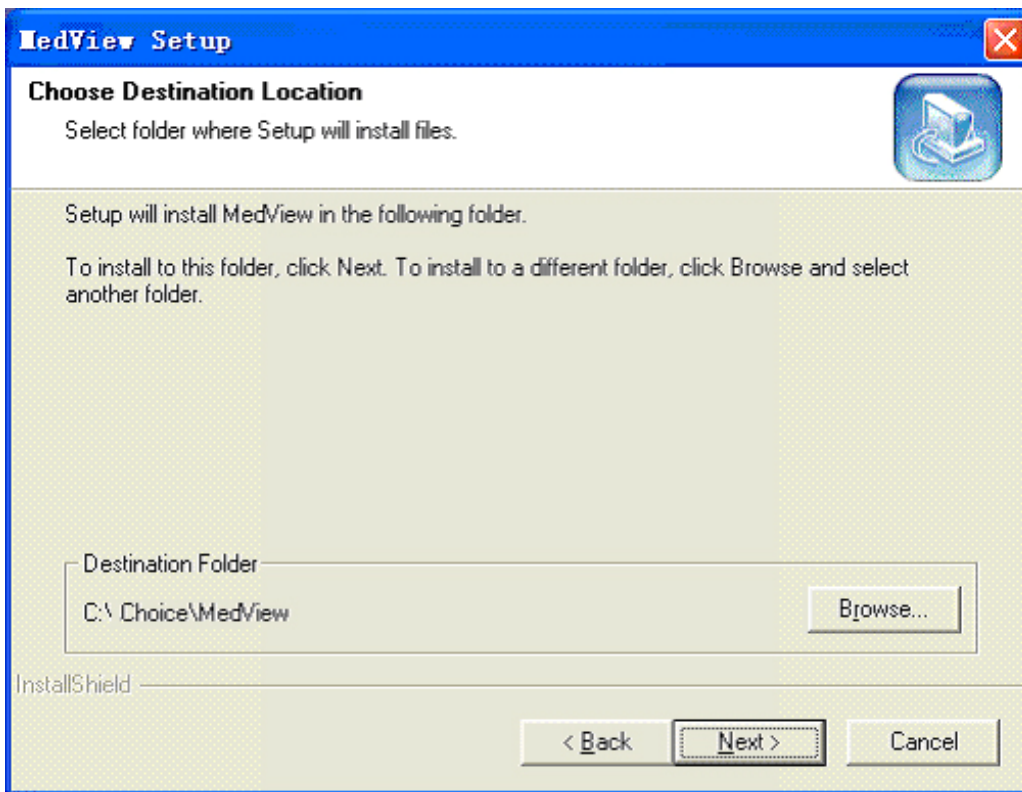


Figure 2-4

(4) Click “Next” button in Figure 2-4, the Figure 2-5 will appear and the installation files are saved in “C:\Choice\MedView”. Also, users can click “Browse” button to choose the path for saving the installation files.

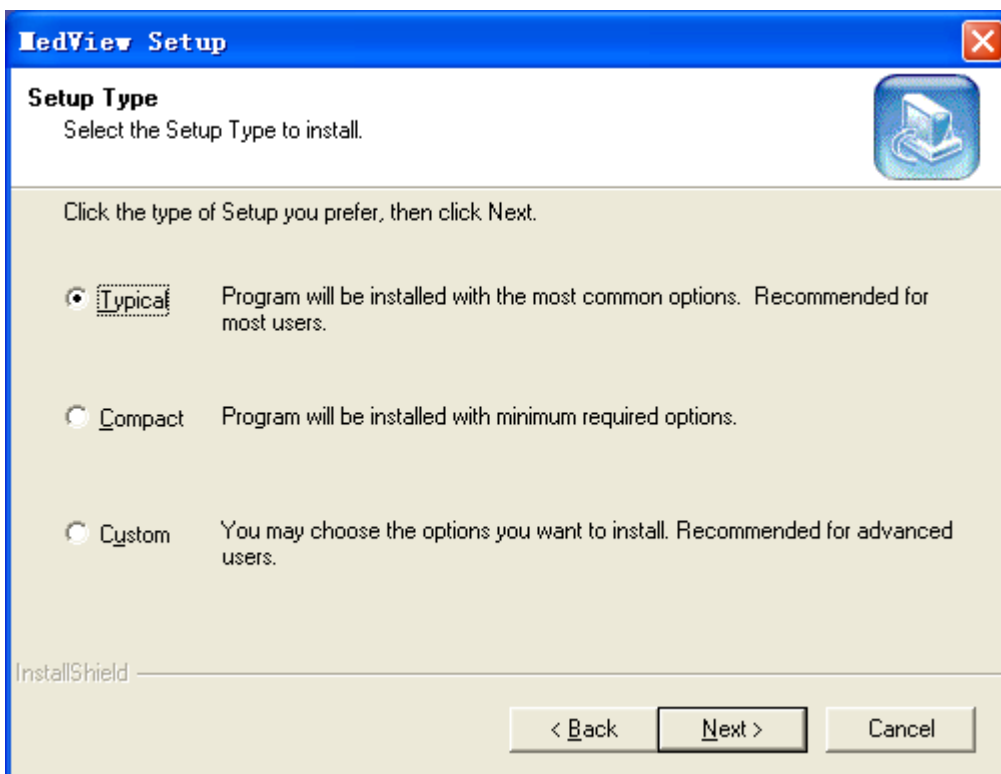


Figure 2-5

(5) To choose MedView setup type, click the radio button “Typical”, “Compact” or “Custom” in Figure 2-5, then click “Next”, the Figure 2-6 will appear.

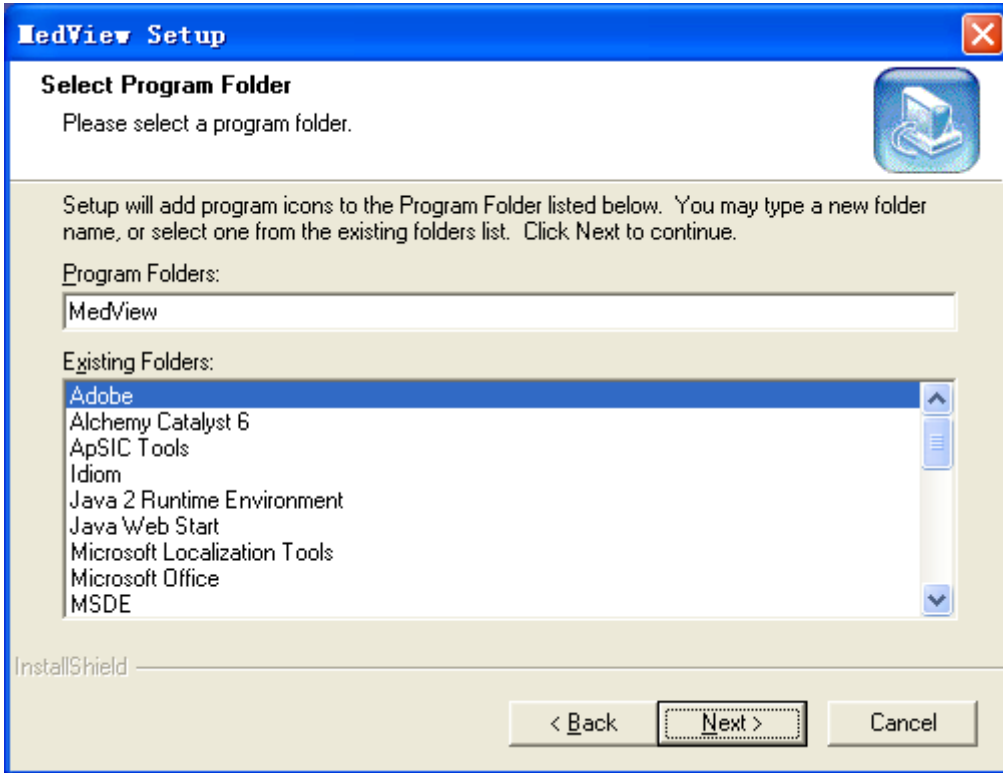


Figure 2-6

(6) Click “Next” to select the default program folder for saving the program icon, or type another folder name in blank as shown as Figure 2-6, the following figure will appear.

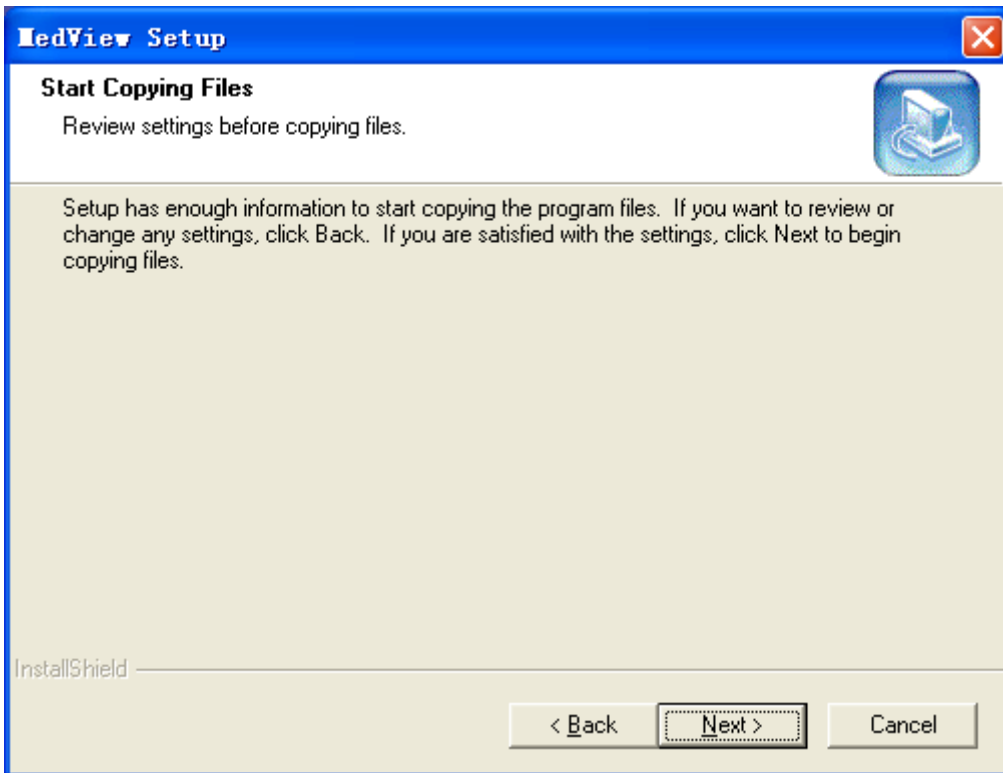


Figure 2-7

(7) Click “Next” in Figure 2-7, the following figure will appear. It indicates that the installation of MedView has been finished on your computer.

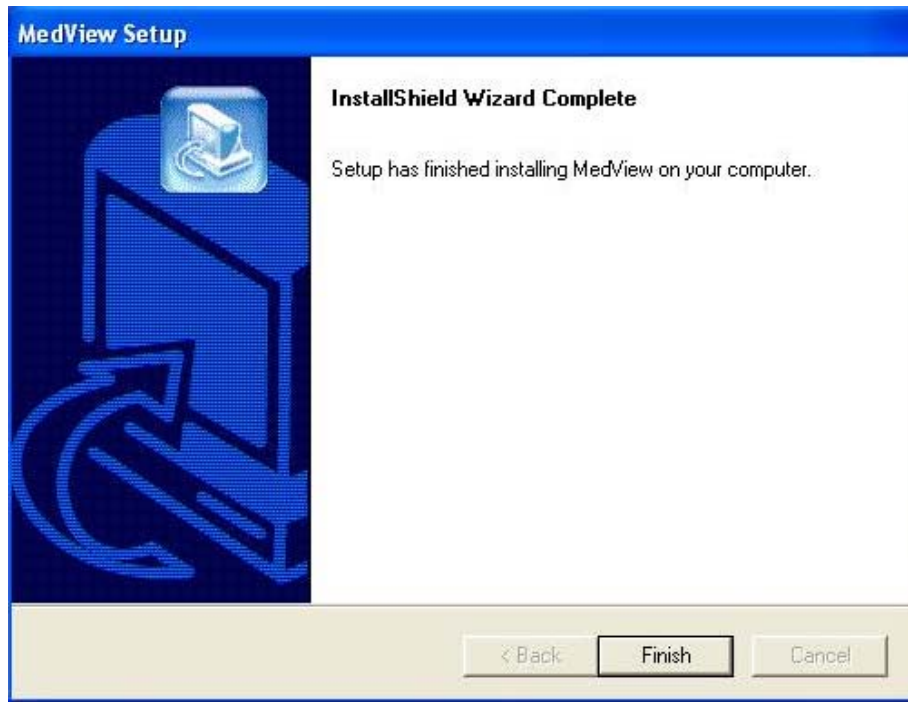


Figure 2-8

(8) Click “Finish” button in Figure 2-8, the shortcut icon will be created on the desktop, as shown in Figure 2-9. The shortcut and Uninstall MedView icons are added into “Start” menu on the left bottom of desktop, as shown in Figure 2-10.

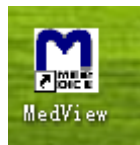


Figure 2-9



Figure 2-10

3. SOFTWARE OPERATION

After installing the MedView software, The data saved in the pulse oximeter/Monitor can be transmitted to the computer by USB cable or Bluetooth®. Then, users can manage the data.

3.1 USB Transmission

This software system will search the corresponding serial port automatically by which the pulse oximeter/monitor communicates with the computer. If that is failed, the manual search for serial port will be effective, refers to section 3.3. The manual search function applies to data transmission with USB cable.

3.1.1 Equipment Connection

Before data transmission by USB cable, connect the pulse oximeter/monitor to the USB interface of the compute by the USB cable.

Note: For the device configured with the function of Bluetooth® transmission, such as MD300C318 and MD300W2, set the Bluetooth® transmission off before starting data transmission by USB cable.

3.1.2 Double click the icon “MedView” on the desktop, the following screen will appear, as shown in Figure 3-1.

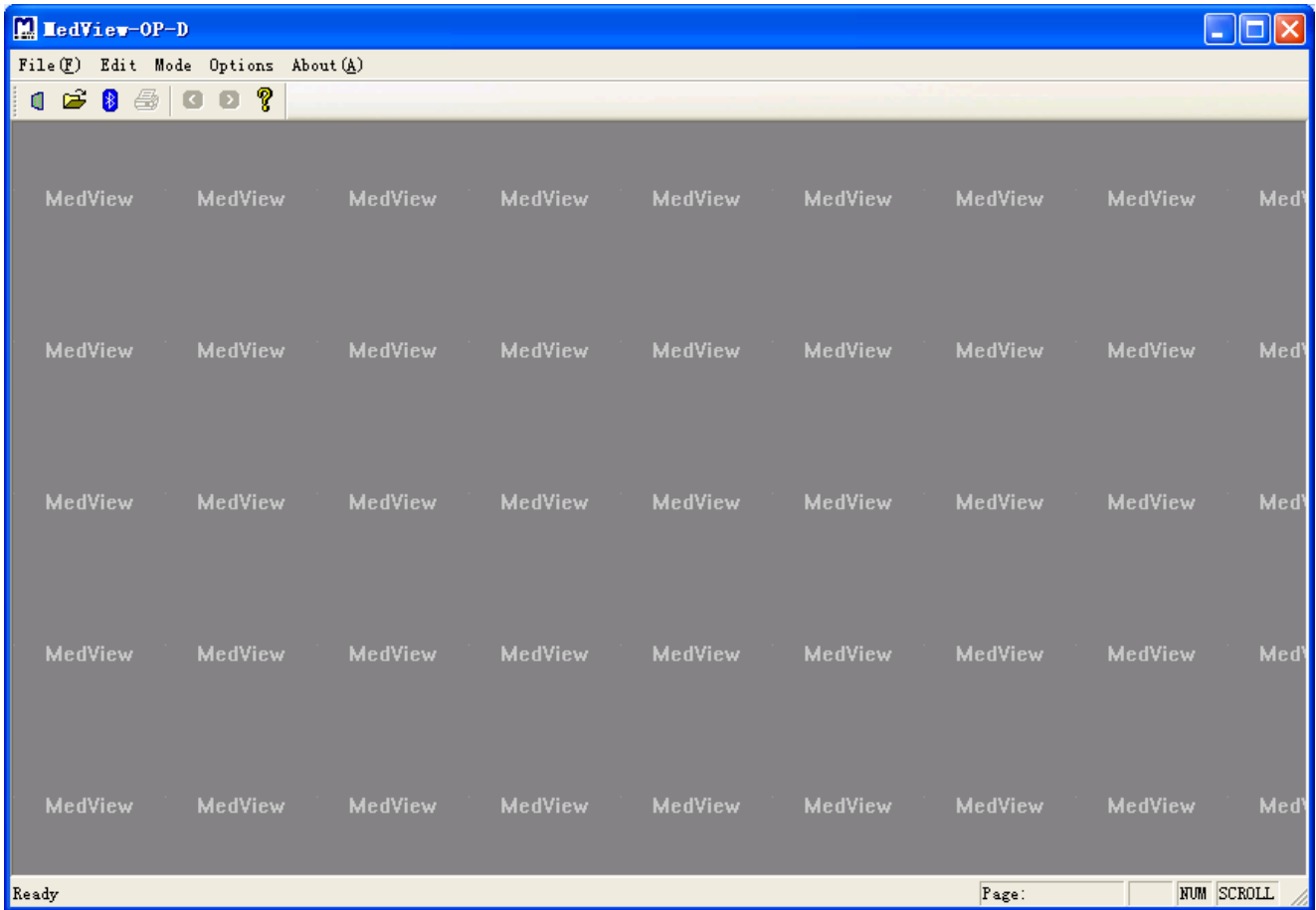


Figure.3-1

3.1.3 Click the “New Date Capture” from the “File(F)” drop-down menu item, as shown in Figure 3-2. A window notifying the total number of data items uploaded appears, refer to fig.3-3.

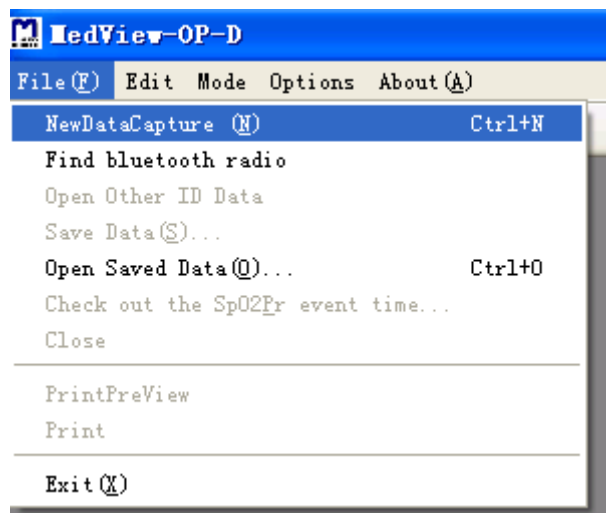


Figure 3-2

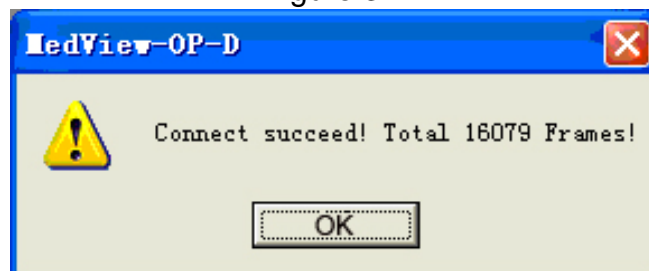


Figure 3-3

3.1.4 Click the “OK” button in fig.3-3 to enter the “New Data Capture” dialog box. The data transmission from the device to the MedView software begins to proceed. Refer to fig.3-4.

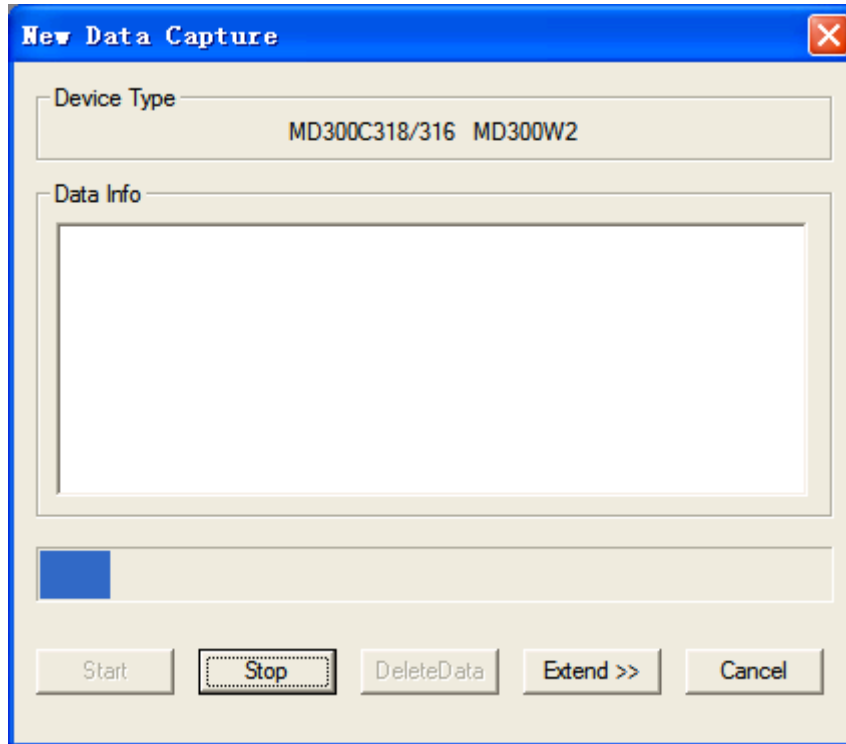


Figure.3-4

Tips:

- (1).Stop:** Click the “Stop” button, the transmission process is terminated.
- (2).Cancel:** click “Cancel” button in any interface, the system will exit the current operation.
- (3).Extend:** This function applies to manually searching serial port by which the device communicates with the computer.

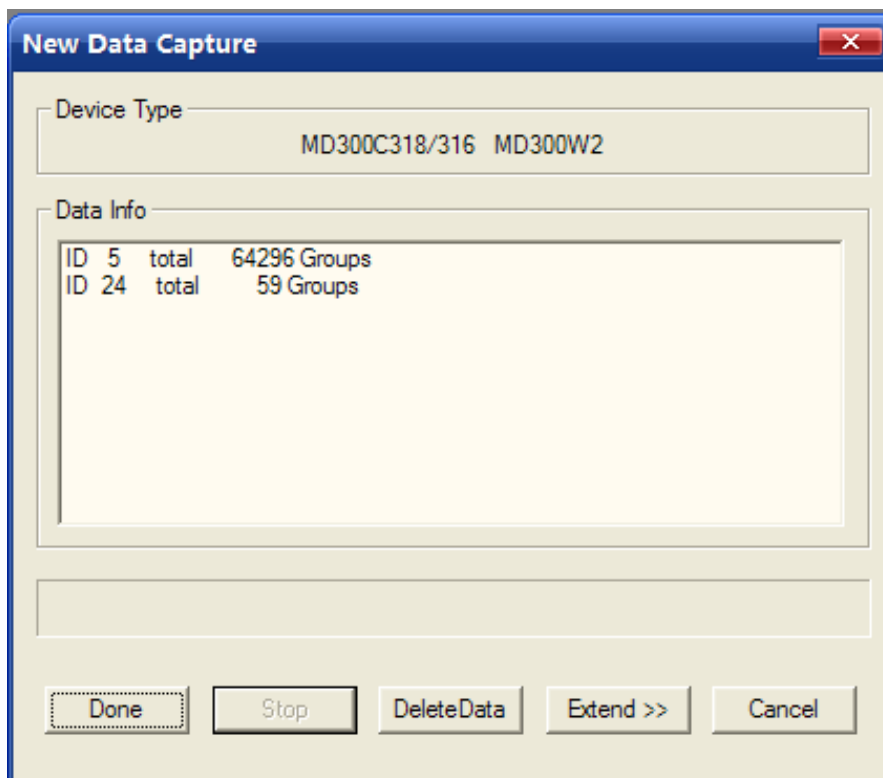


Figure 3-5

3.1.6 Delete Data: Click “Delete Data” button in Figure 3-5, the following figure appears, as shown in Figure 3-8. If clicking the “Yes” button, all the data in the device will be deleted, as shown in figure 3-9.

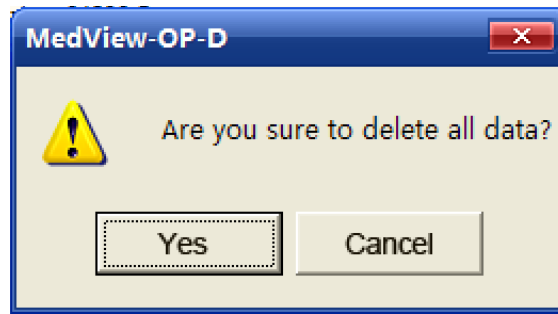


Figure 3-8

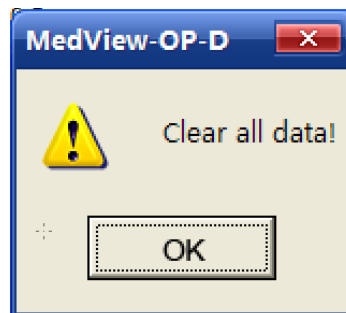


Figure 3-9

3.2 Save Data

Click “Save Data(S)...” from the “File(F)” drop-down menu item, as shown in Figure 3-10.

Note: Make sure that save the data into your computer after data transmission every time for later management. The saved data file has the extension of .dat、.txt or.xls.

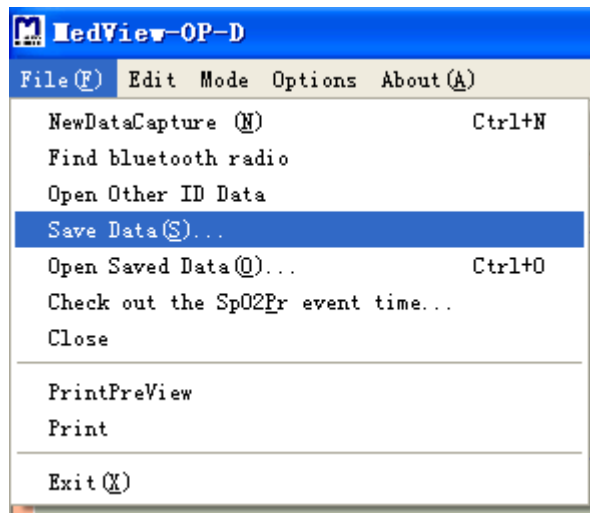


Figure 3-10

3.3 Manual search for serial port

If serial port by which the device communicates with PC fails to be found, It is recommended to apply the manual search for serial port.

3.3.1 Click “**Extend>>**” button as shown in Figure 3-6, the interface is shown as the following figure.

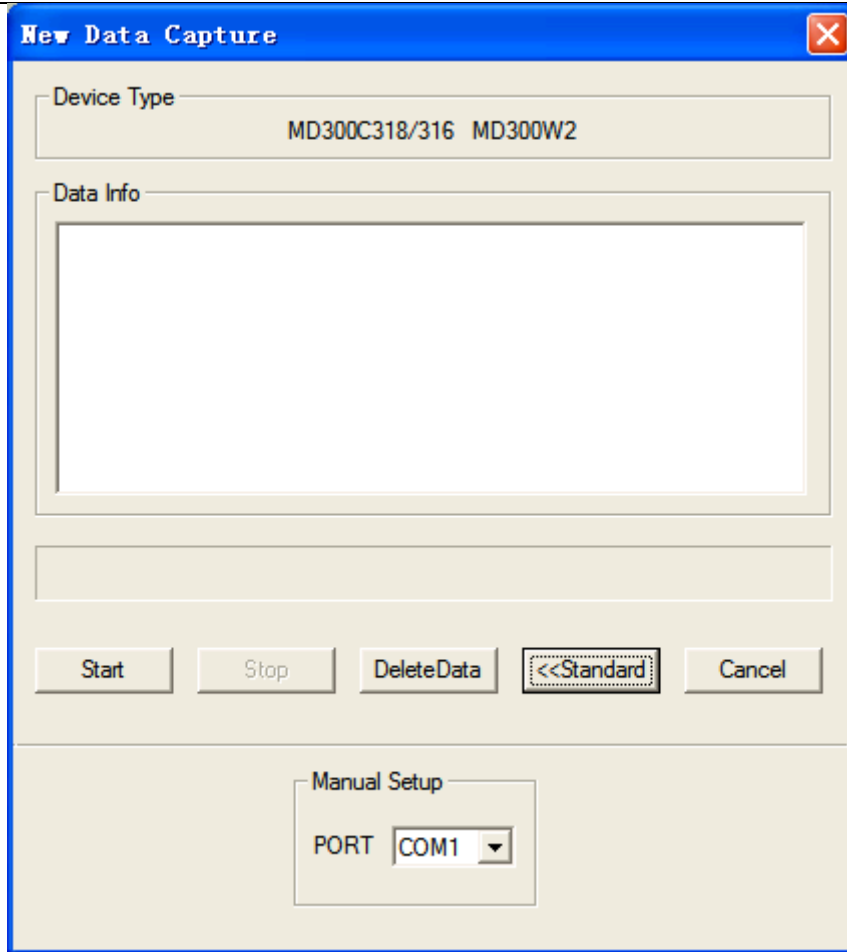


Figure 3-11

3.3.2 Return to the desktop of compute, right click "My Computer"->"Properties", refer to fig.3-12.



Figure 3-12

Click "**Hardware**" item from System Properties panel, as shown in Figure 3-13.

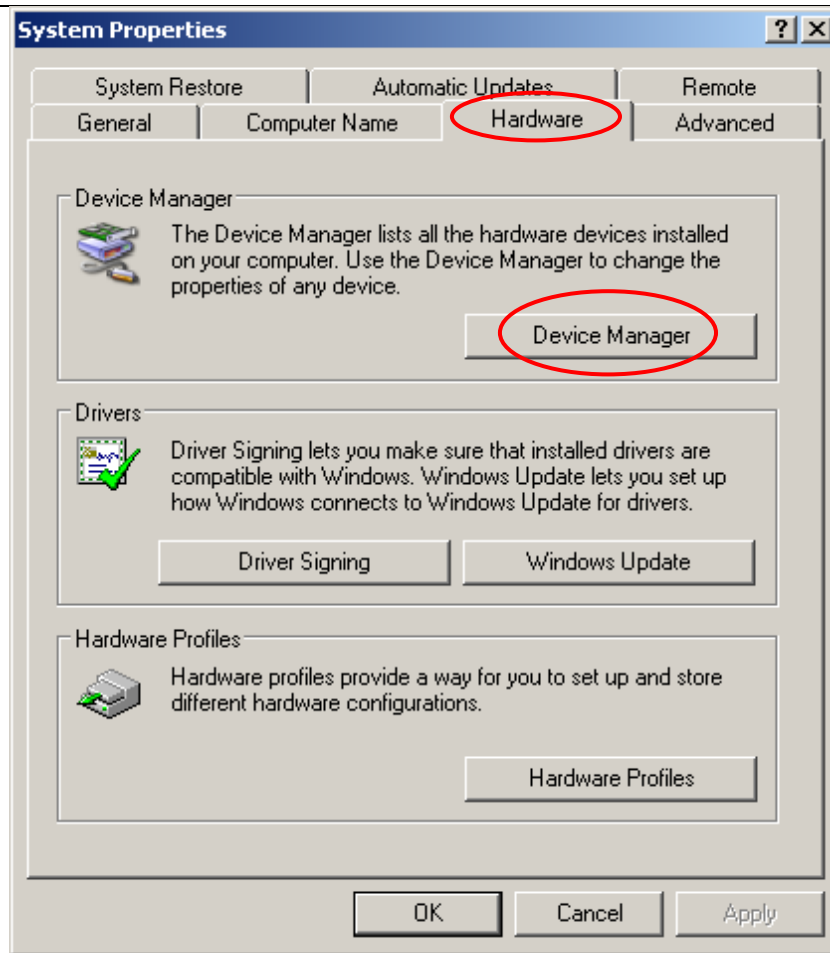


Figure 3-13

3.3.3 Click “**Device Manager**” button in the panel as shown in Figure 3-13. The following screen appears, “**CP2101 USB to UART Bridge Controller (COMx)**” indicates that the serial port is **COMx** by which the device communicates with the computer (E.g. “**COM3**” in Figure 3-14).

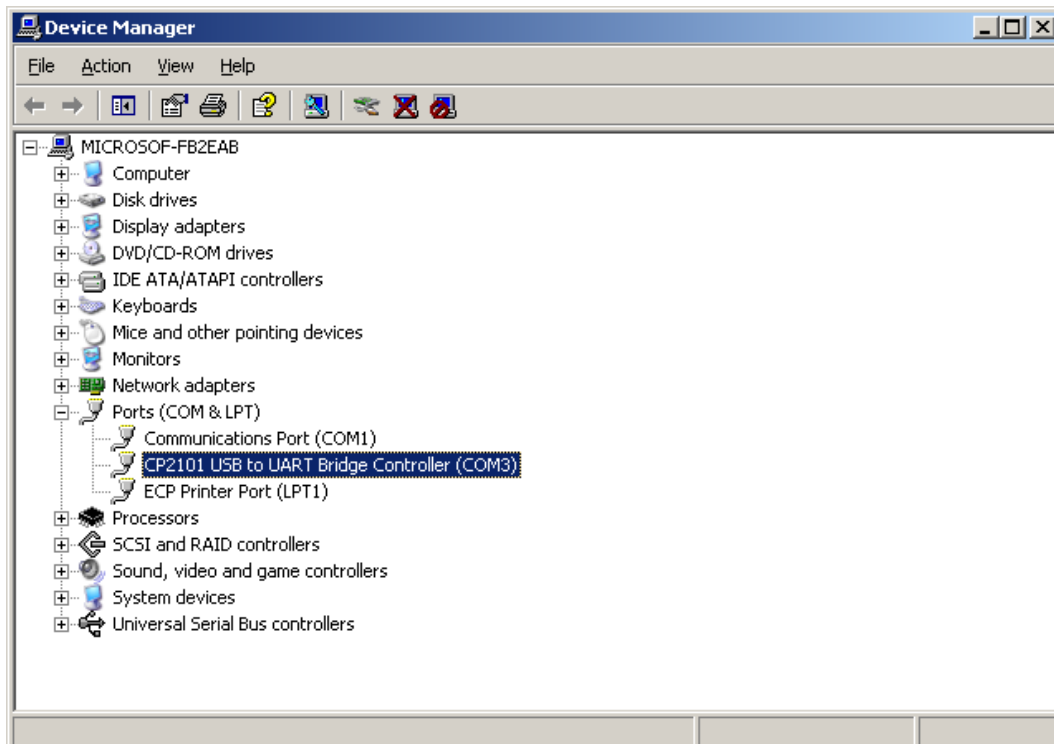


Figure 3-14

3.3.4 Select the found “**COMx**” from the “**PORT**” drop-down menu, (E.g. “**COM3**” in Figure 3-14). Then click “Start” button to capture the data. The figure 3-4 will appear.

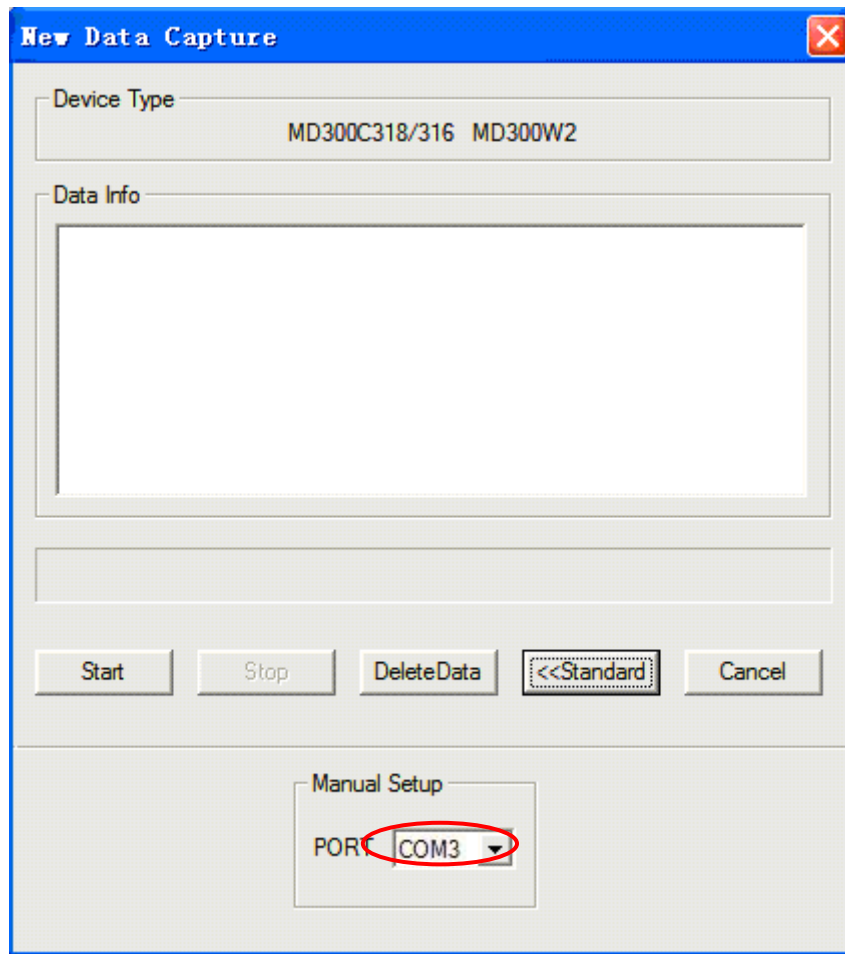


Figure 3-15

3.4 Bluetooth® data transmission

The Bluetooth® data transmission applies to the oximeter MD300C318 and MD300W2. The following operation is **only** suitable for the computer configured **Microsoft® Bluetooth®**.

Notes:

- ✧ Before uploading data, read the instruction manual for MD300C318/ W2 carefully.
- ✧ Set the transmission mode of the oximeter to “**Blue Tooth: ON**”.
- ✧ **Insert the attached Bluetooth® adapter into the USB port.**

3.4.1 Click “Find Bluetooth® radio” from “File(F)” drop-down menu items as shown in Figure 3-16. The Bluetooth Information window appears, refer to Fig.3-17.

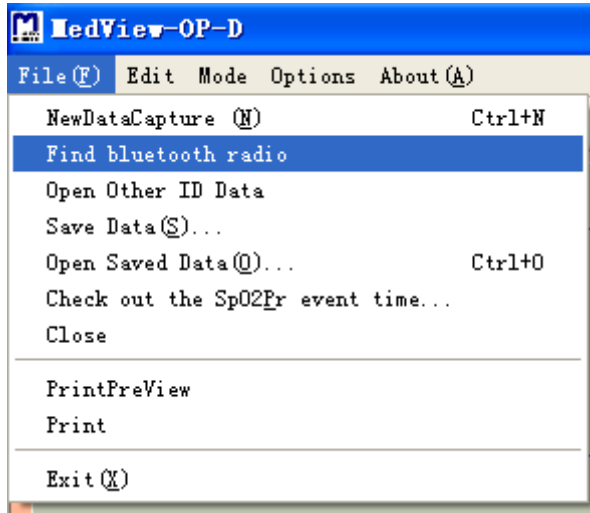


Figure 3-16

3.4.2 There are three methods of searching Bluetooth® devices, (1). Select “Show Remembered” (2). Select “Issue Inquiry” and “Show Remembered” (3). Select “Wizard”.

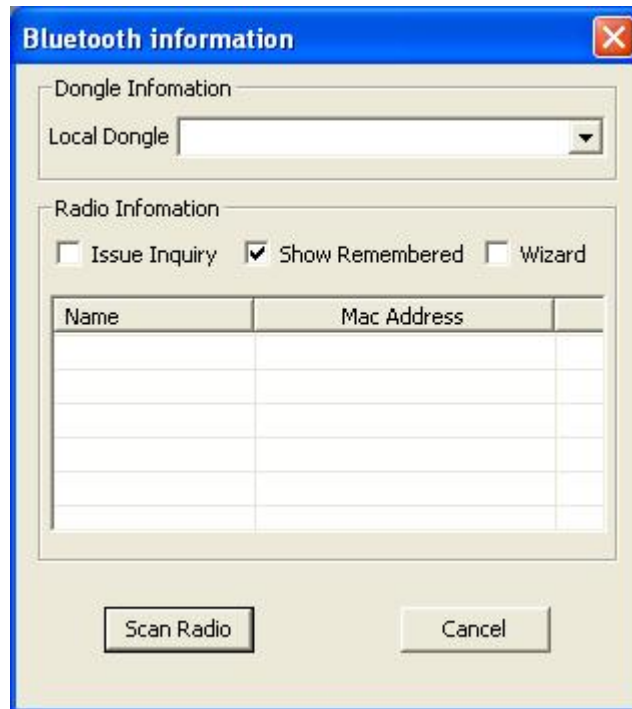


Figure 3-17

(1). Select “Show Remembered” in the interface as shown in Figure 3-17, then click “Scan Radio” or “Rescan Radio”, as shown in Figure 3-18.

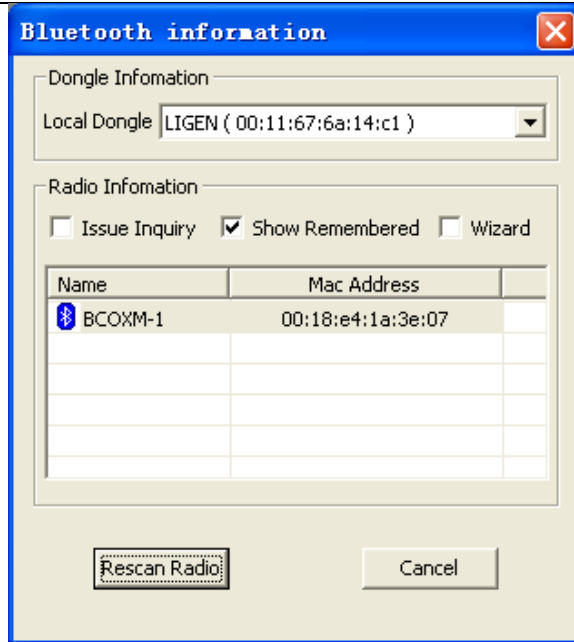


Figure 3-18

After the Bluetooth device is found, it appears in the blank. Click the Bluetooth® device by the right mouse button, and click “Connect” item from the drop-down menu, refer to Figure 3-19.

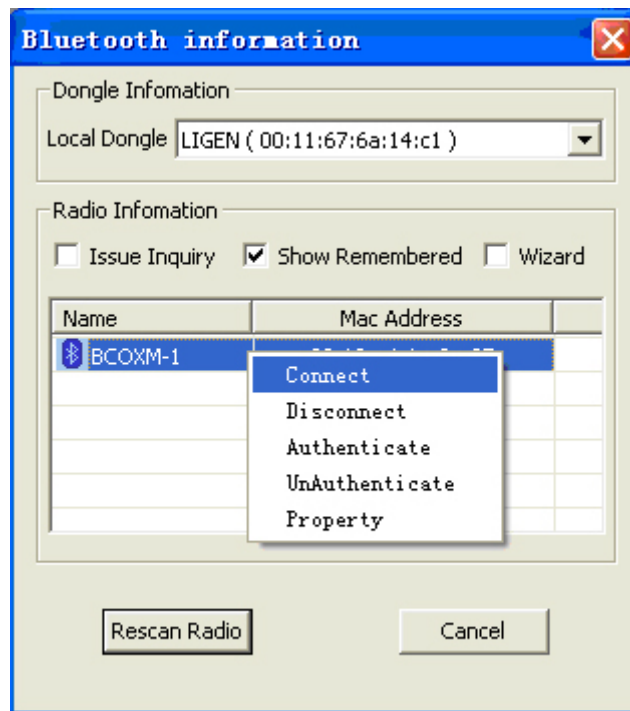


Figure 3-19

When the connection is created successfully, the following interface appears, as shown in Figure 3-20.



Figure 3-20

If clicking the “OK” button, users can upload data saved in the device to the computer. The ordinal operation is the same as the USB transmission..

(2). Select “Issue Inquiry” and “Show Remembered” in the interface as shown in Figure 3-21. The ordinal operation is the same as when selecting “Show Remembered”.

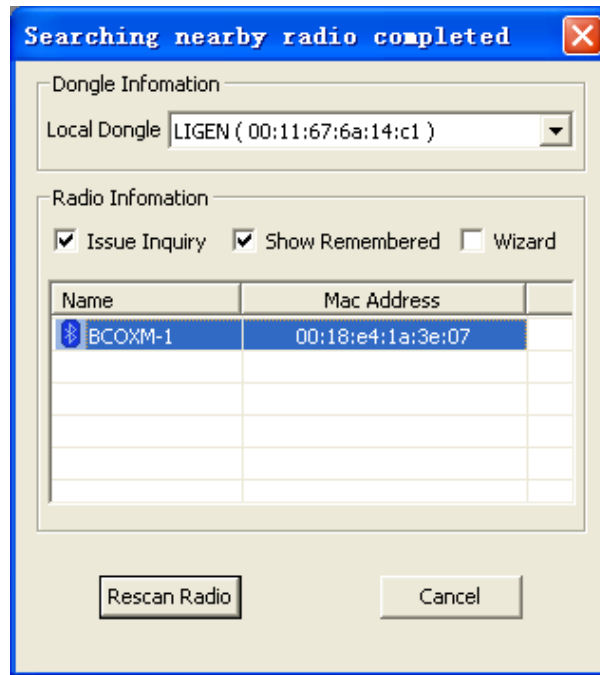


Figure 3-21

(3). Select “Wizard” in the interface as shown in Figure 3-22, the following operation refers to steps I ~ IV.

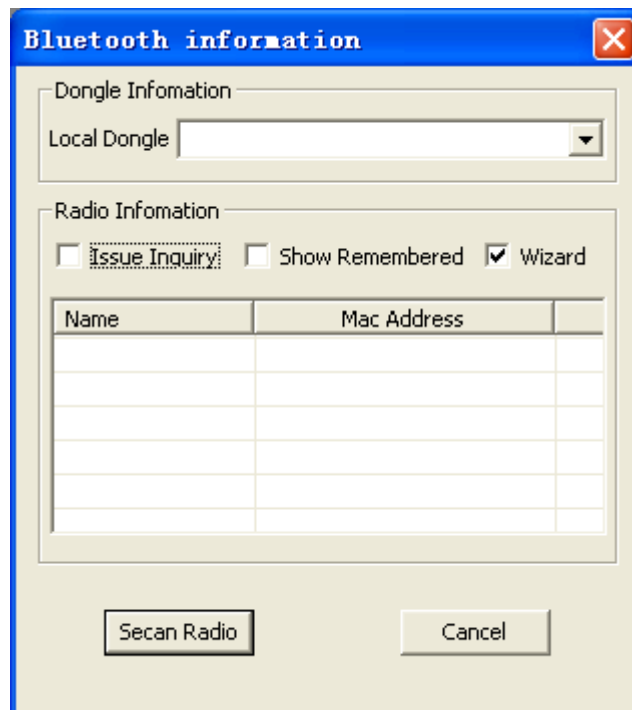


Figure 3-22

I . After choosing “Wizard”, click “Scan Radio” in figure 3-22. the following window appears.



Figure 3-23

II . Check the button “My device is setup and ready to be found” in Figure 3-23. Click “Next” button, the following screen appears.

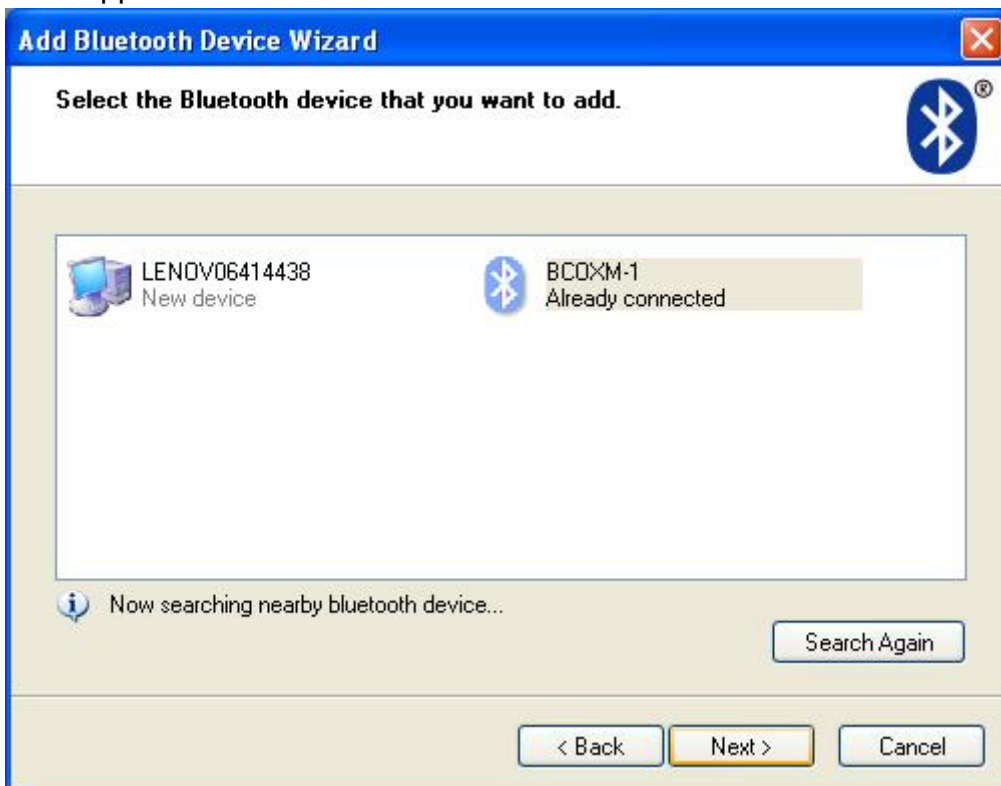


Figure 3-24

III. Choose and click the Bluetooth® device, such as “BCOXM-1”, and click “Next” button. The following window appears.

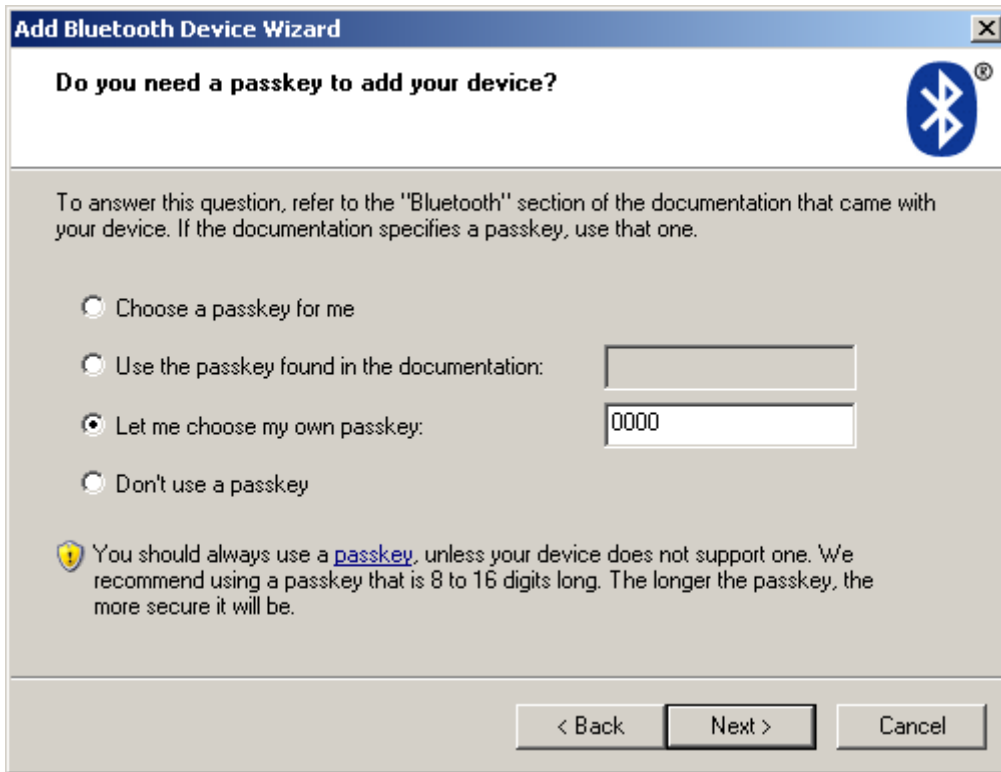


Figure 3-25

IV. Please check “Let me choose my own passkey” radio button, and type the default passkey 0000 in the corresponding bank. Click “Next”, the following figures 3-26&3-27 appear.

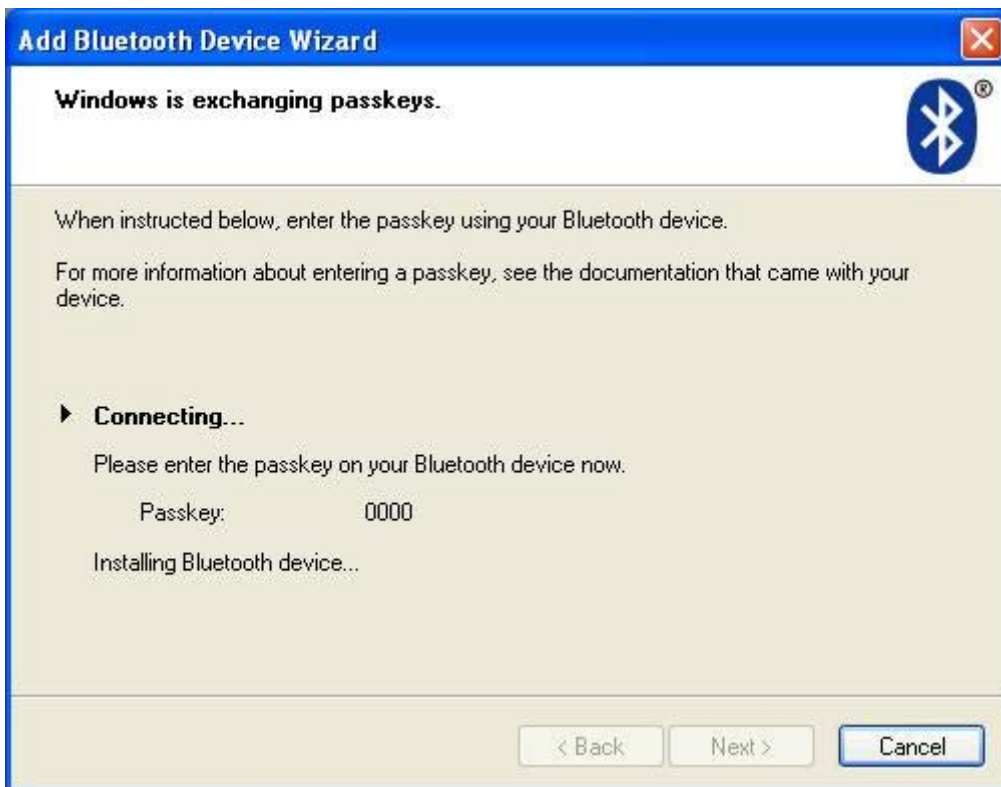


Figure 3-26



Figure 3-27

Click “Finish” to complete the connection with Bluetooth® device. And the following figure appears.

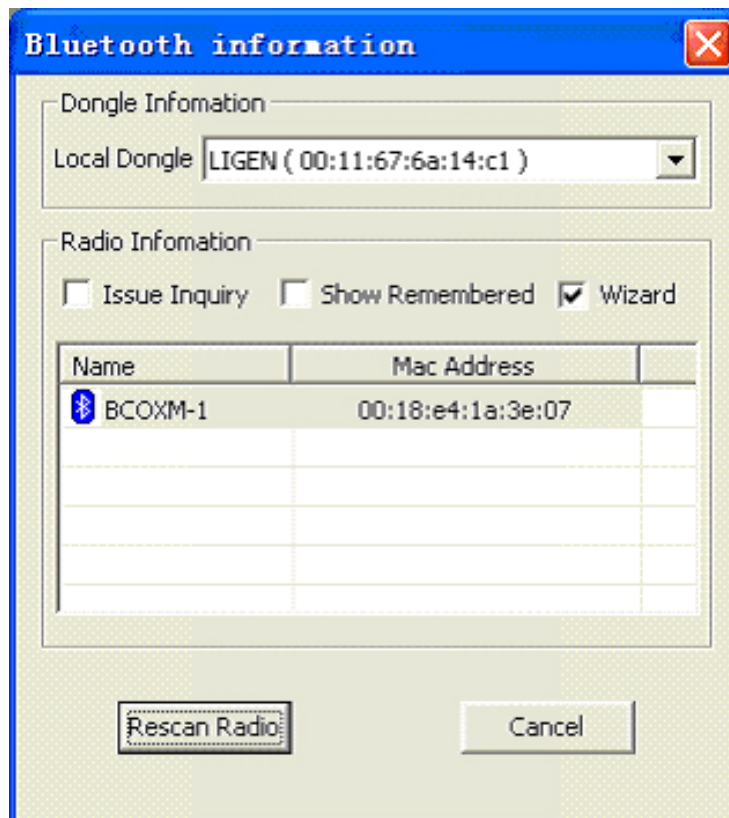


Figure 3-28

The ordinal operation is the same as when selecting “Show Remembered”.

Note: If user uses non-microsoft® bluetooth® driver and the driver support bluetooth® virtual serial port for data transmission, the driver will create virtual serial port for the device. When using non-microsoft® bluetooth® driver, choose the corresponding port in “Manual Setup” section.

3.5 Open Saved Data

Click “Open Saved Data(O)...” from “File(F)” drop-down menu item, as shown in Figure 3-29. Then you can import saved data record from PC. Note that the “Edit”, “Mode” and “Options” menu items are only available after importing data record.

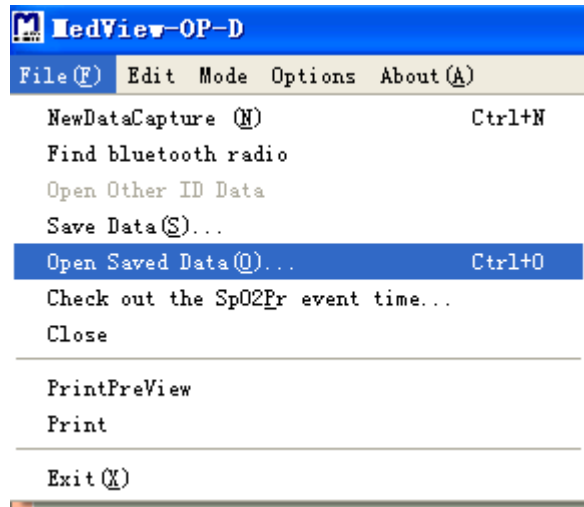


Figure 3-29

3.6 Check out the SpO2 Pr event time...

Click “Check out the SpO2 Pr event time...” from “File(F)” drop-down menu item, as shown in Figure 3-30. Then you can export the analysis result for desaturation and pulse rate events. The analysis result file is saved with the extension of .txt.

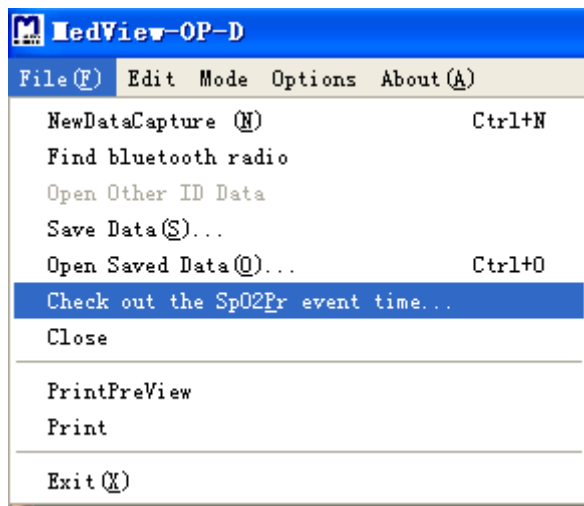


Figure 3-30

3.6 Management of Patient information

3.6.1 Edit Patient Info

Click “Patient Info” from “Edit” drop-down menu item, as shown in Figure 3-31.

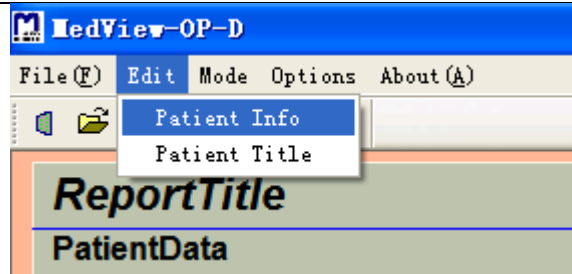


Figure 3-31

The following figure will appear, type in the blanks with the patient’s information. That is important for managing and analyzing the measurement data of patients. After finishing the columns, click “Save Info” button to save the information for patient or click “Delete Info” button to delete the information. Or click “Cancel” to cancel the current operation.

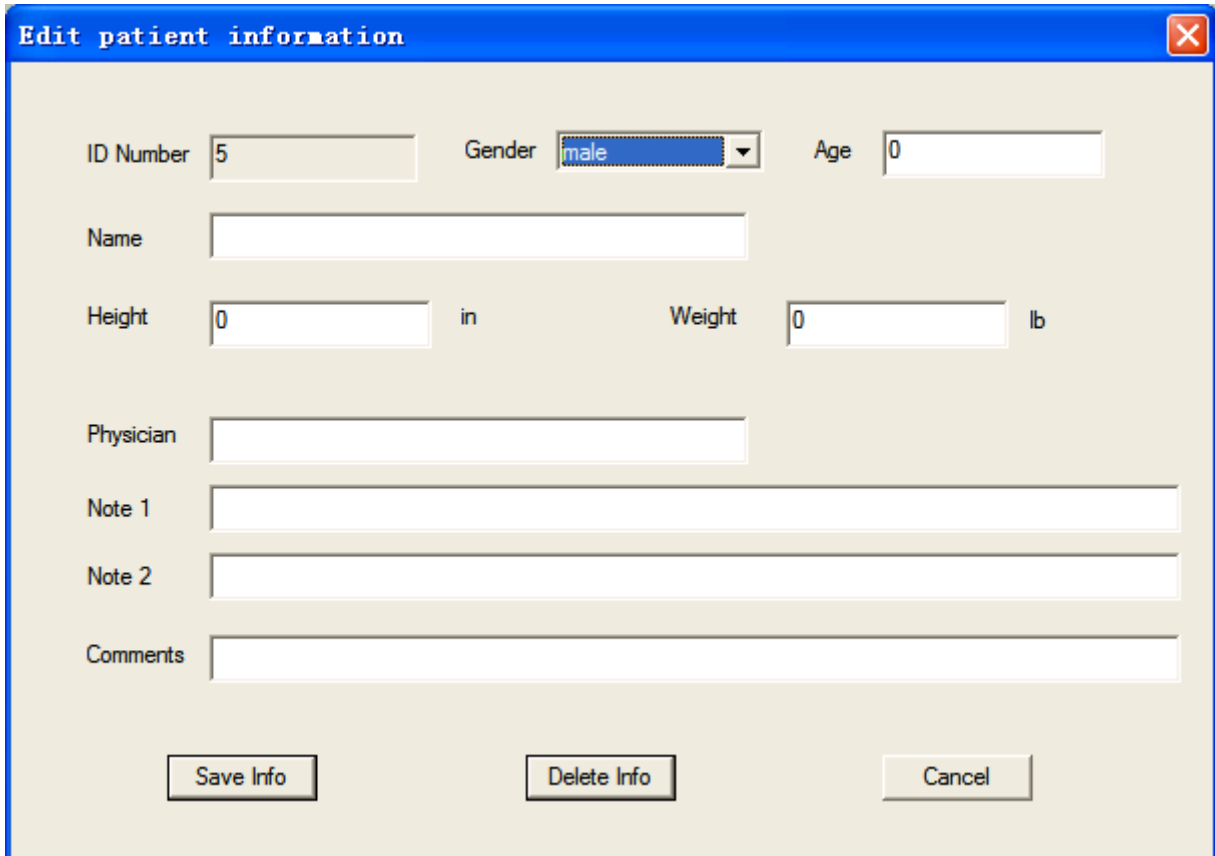


Figure 3-32

3.6.2 Edit Patient Title

Click “Patient Title” from “Edit” drop-down menu item, as shown in Figure 3-33. the “Modify Tile” dialog box appears.

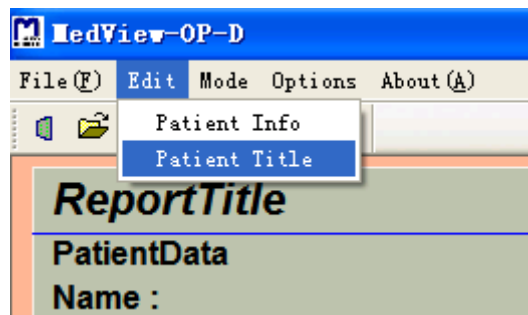


Figure 3-33

The name of the patient report can be changed by typing a new name, as shown in Figure 3-34. Click the “OK” button to confirm or “Cancel” to exit the current dialog box.

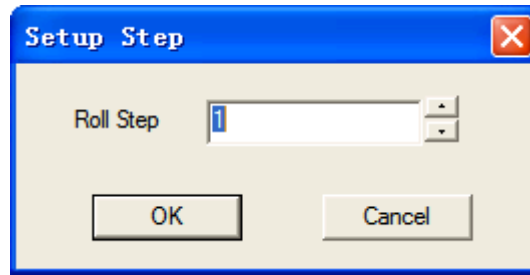


Figure 3-41

Change roll step number by clicking the up button or down button control and then click “OK” or “Cancel” button to confirm or abort the setting.

3.8.2 Analysis Setup

Click “Analysis Setup” from “Options” drop-down menu item to access the “Analysis Setup” dialog box. Refer to fig.3-42&3-43.

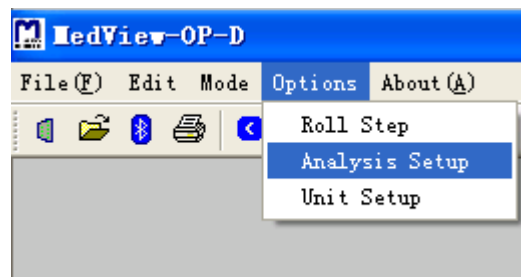


Figure 3-42

The parameters shown in the following dialog box can be set by clicking the up button or down button next to the corresponding blanks. Then click “OK” or “Cancel” to confirm or abort the settings.

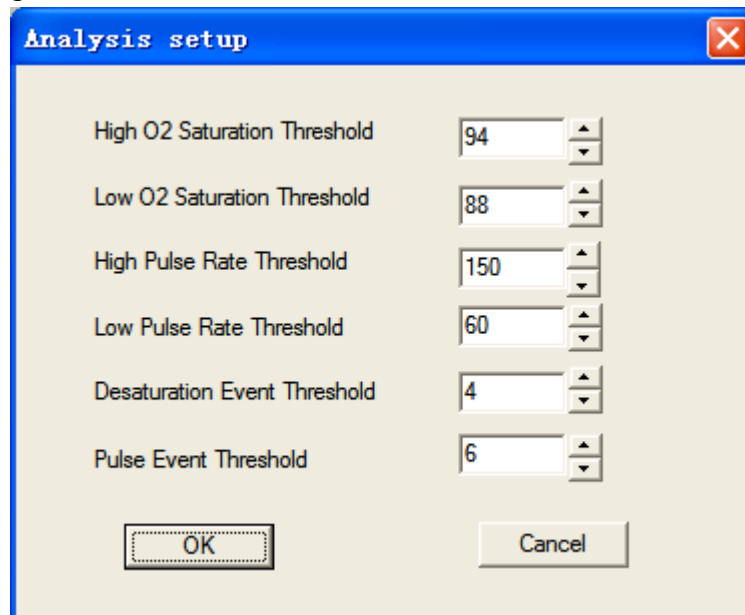


Figure 3-43

- (1) **High O2 Saturation Threshold:** set the upper value of SpO₂, the software can record the times that the measured SpO₂ is over the upper value.
- (2) **Low O2 Saturation Threshold:** set the lower value of SpO₂, the software can record the times that the measured SpO₂ is below the lower value.
- (3) **High Pulse Rate Threshold:** set the upper value of pulse rate, the software can record the times that the measured pulse rate is over the upper value.
- (4) **Low Pulse Rate Threshold:** set the lower value of pulse rate, the software can record the times that the measured pulse rate is over the lower value.

(5) **Desaturation Event Threshold:** Set the desaturation value of SpO₂, the software will record the times that SpO₂ has decreased by the desaturation value, compared with the previous SpO₂.

(6) **Pulse Event Threshold:** Set the decreased value of pulse rate, the software will record the times that pulse rate has decreased by the value, compared with the previous pulse rate.

3.8.3 Unit Setup

Click “Unit Setup” from “Options” drop-down menu item to access the “Unit Setup” dialog box. Refer to fig.3-44&3-45.

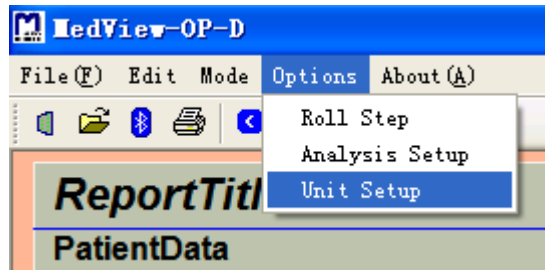


Figure 3-44

Two unit systems are available, including Britain and Metric systems, as shown in Figure 3-45.

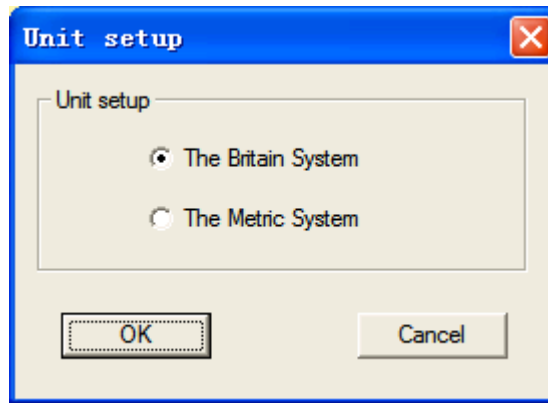


Figure 3-45

3.9 Open Other ID Data

Click “Open other ID Data” from “File(F)” drop-down menu item to review other ID’ data records. Refer to fig.3-46&3-47.

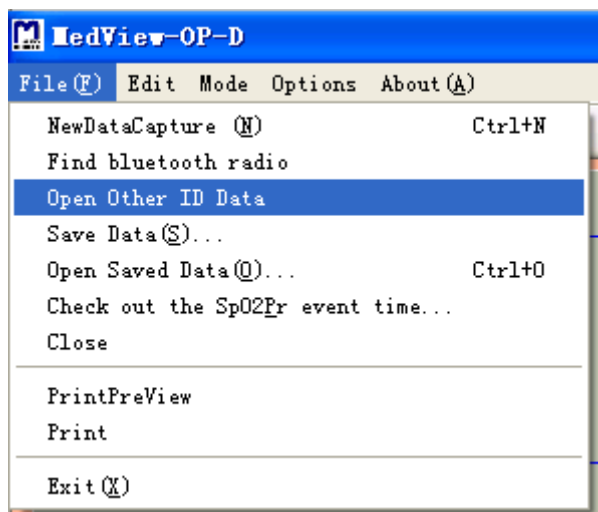


Figure 3-46

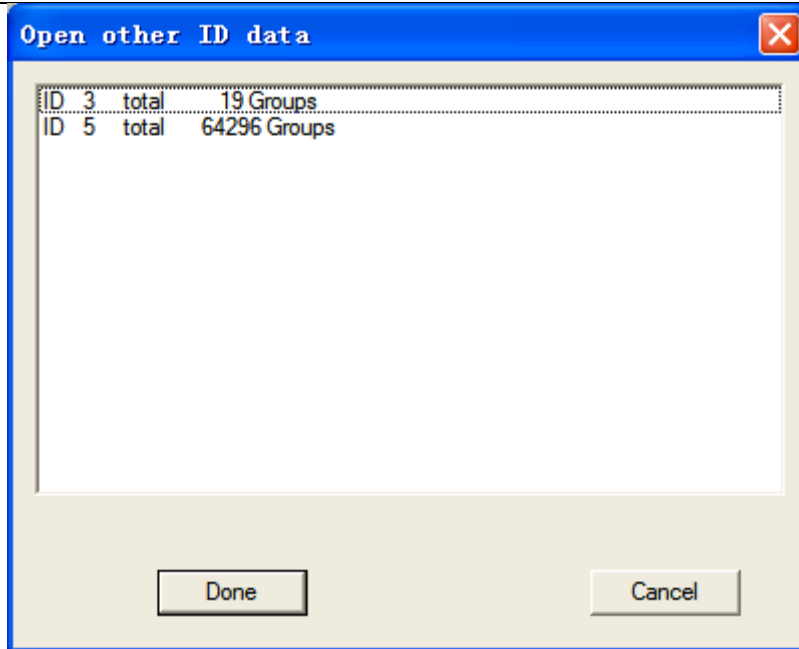


Figure 3-47

3.10 Print

Click “Print” from “File(F)” drop-down menu item to print this piece of data record. The data record can be printed in trend, table and analysis report according to your selected display mode from “Mode” menu item.

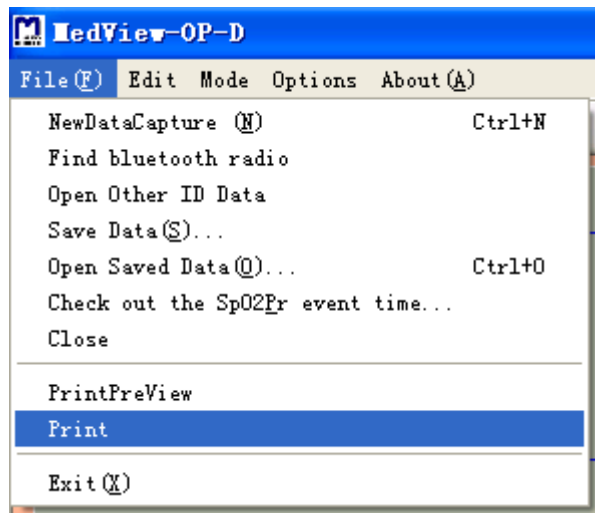


Figure 3-48

3.11 About(A)

Click “About(A)...” from “About(A)” menu item to see the information of the software.

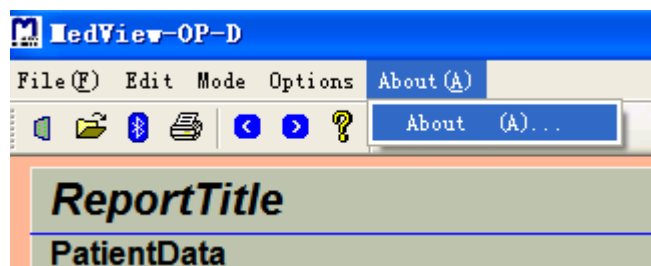


Figure 3-49

Note: When the following prompt windows appear, please check the connection between the device and PC for normal connection or whether the device is turned on.



Figure 3-50

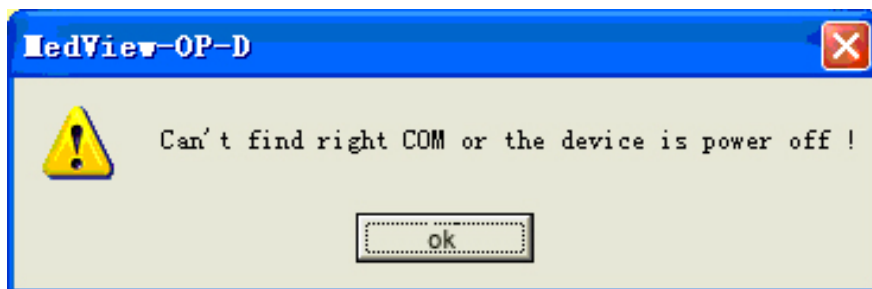


Figure 3-51

4. SOFTWARE UNINSTALL

Click “Uninstall MedView” from “Start” menu on the desktop, as shown in Figure 4-1. Follow the instruction to uninstall MedView software. The uninstall screens are shown below:



Figure 4-1

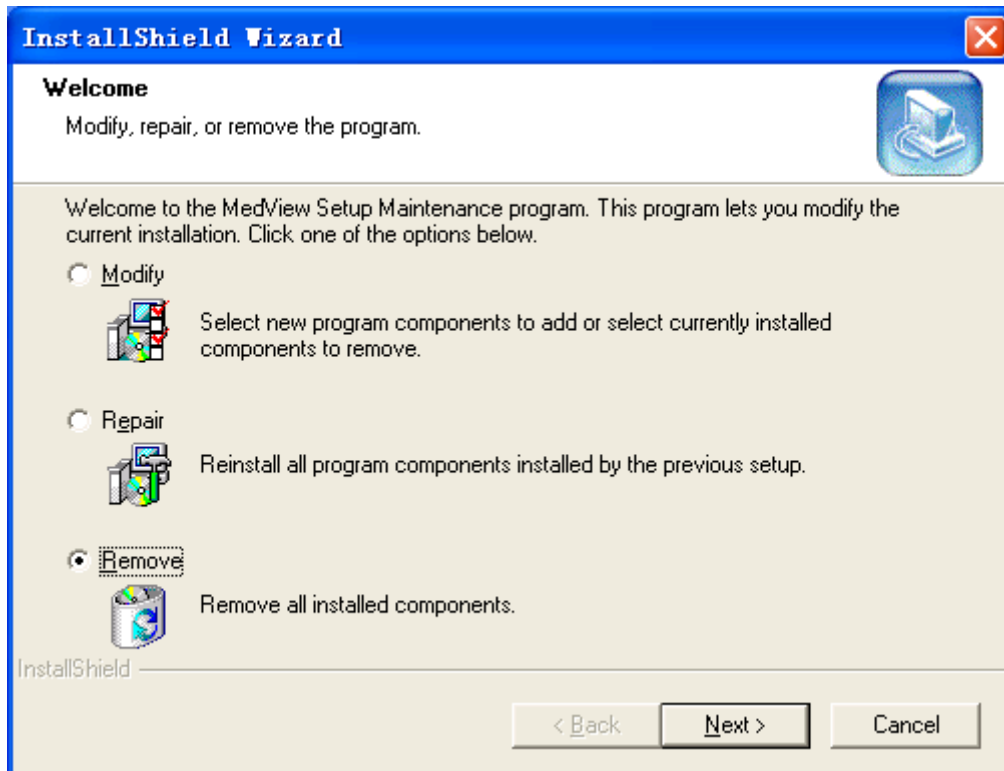


Figure 4-2

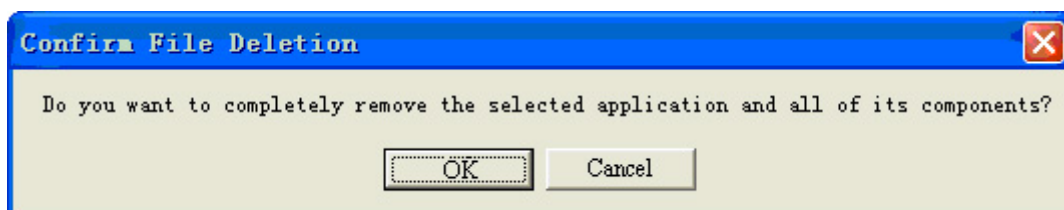


Figure 4-3

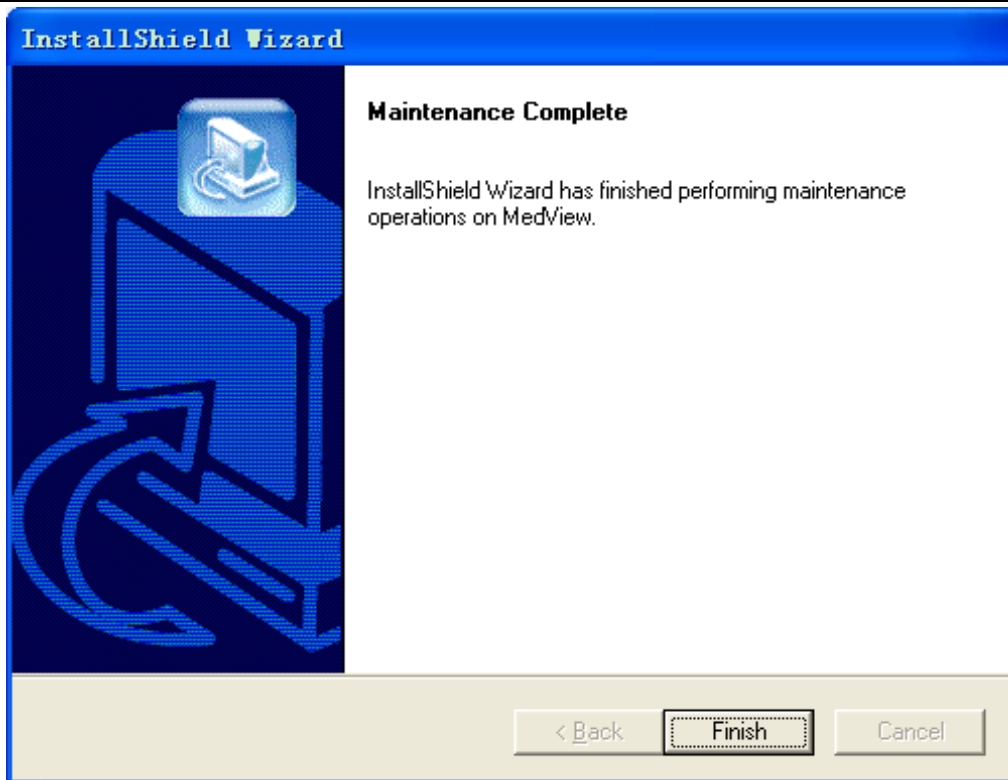


Figure 4-4

Appendix:

If the USB Driver cannot be installed automatically, the Manual installation is suggested.

1 Click “Browse this CD” icon, the CD folder will be opened, as shown in Figure 1.

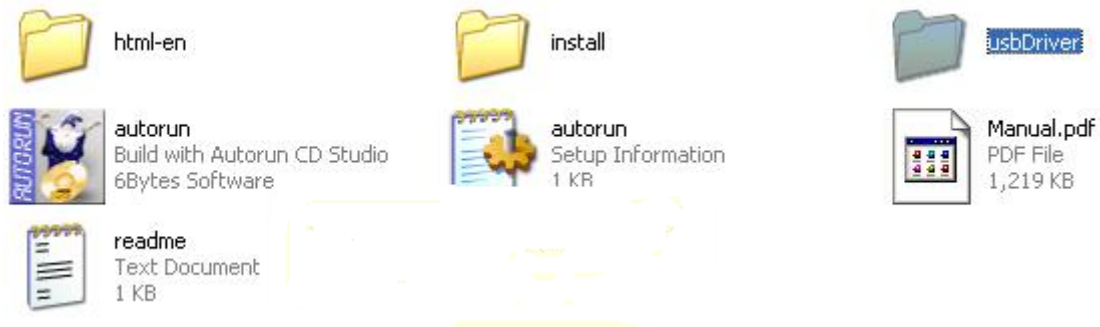


Figure 1

2 Dblclick the “usbDriver” folder to open it in Figure 1, the following icon will appear, shown in Figure 2.



Figure 2

3 To install USB Driver, dblclick the “setup.exe” icon shown in Figure 2, the following interface will appear.

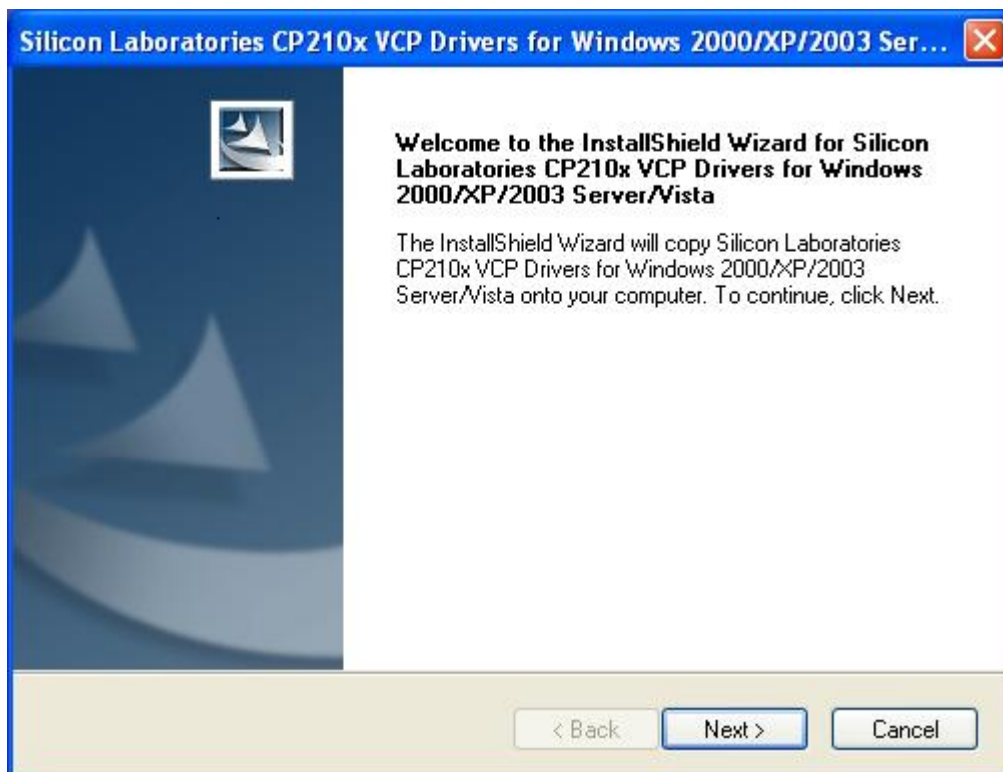


Figure 3

(2) Click “Next” button in Figure 3, then Figure 4 will appear.

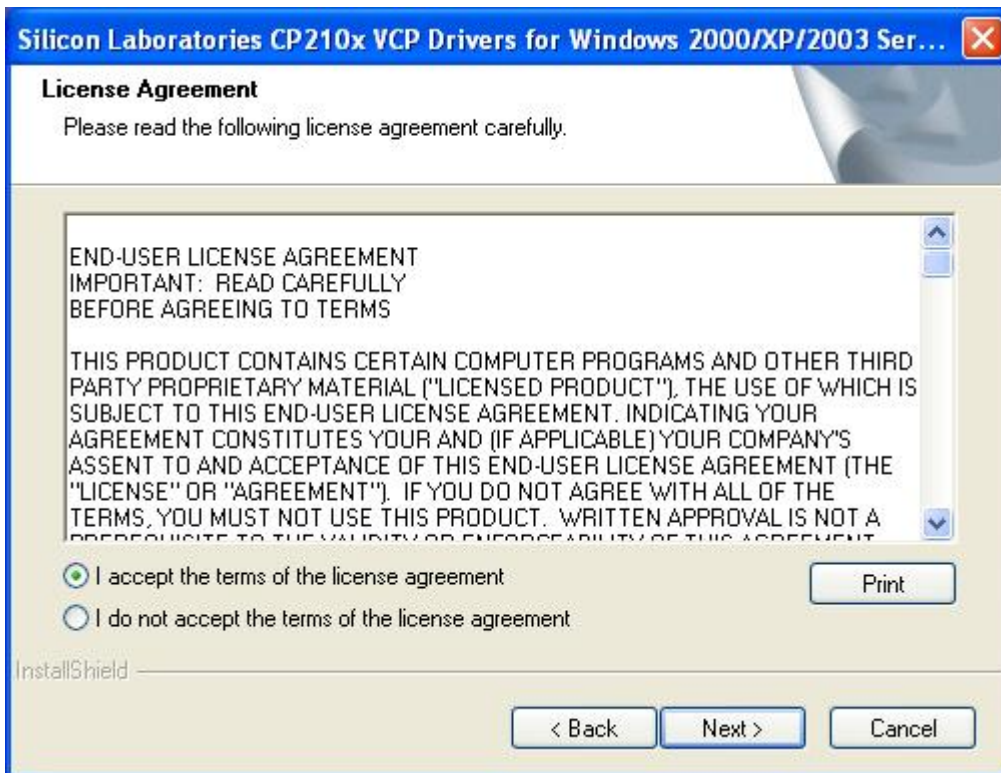


Figure 4

(3) Click the radio button “**I accept the terms of the license agreement**” in Figure 4, then Figure 5 will appear, click “Next” button and the installation files will be saved in “C:\SiLabs\MCU_2”. Also, users can click “Browse” button to choose the path for saving the installation files.

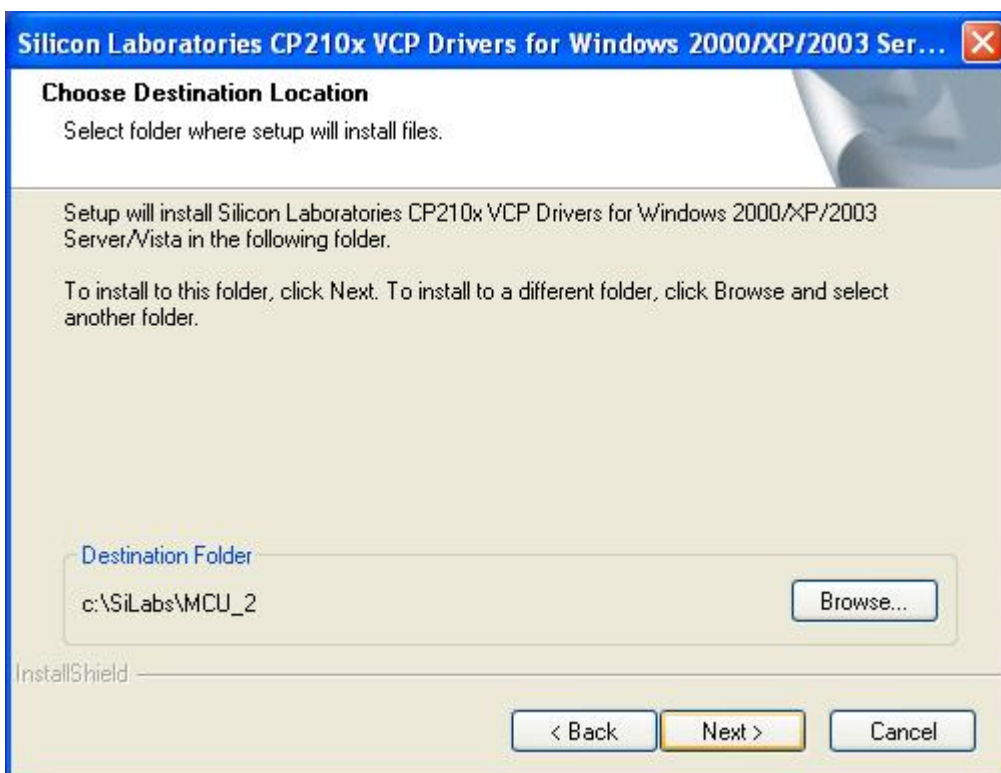


Figure 5

(4) Click “Next” button in Figure 5, then Figure 6 will appear.

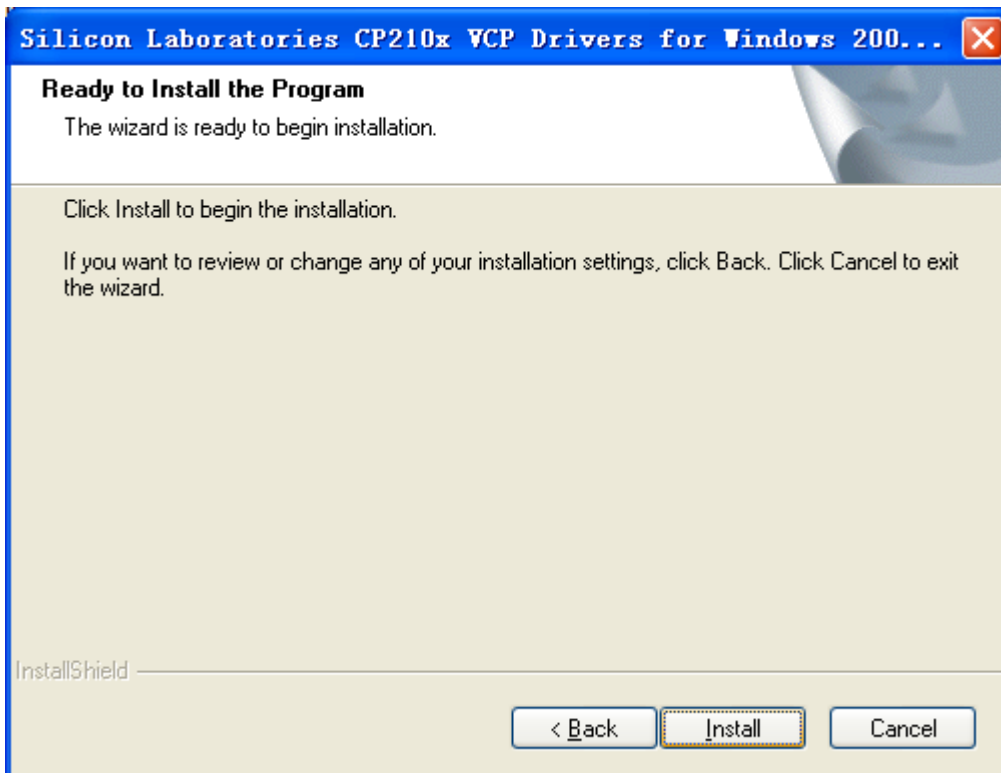


Figure 6

(5) Click “Install” button in Figure 6, then Figure 7 will appear.

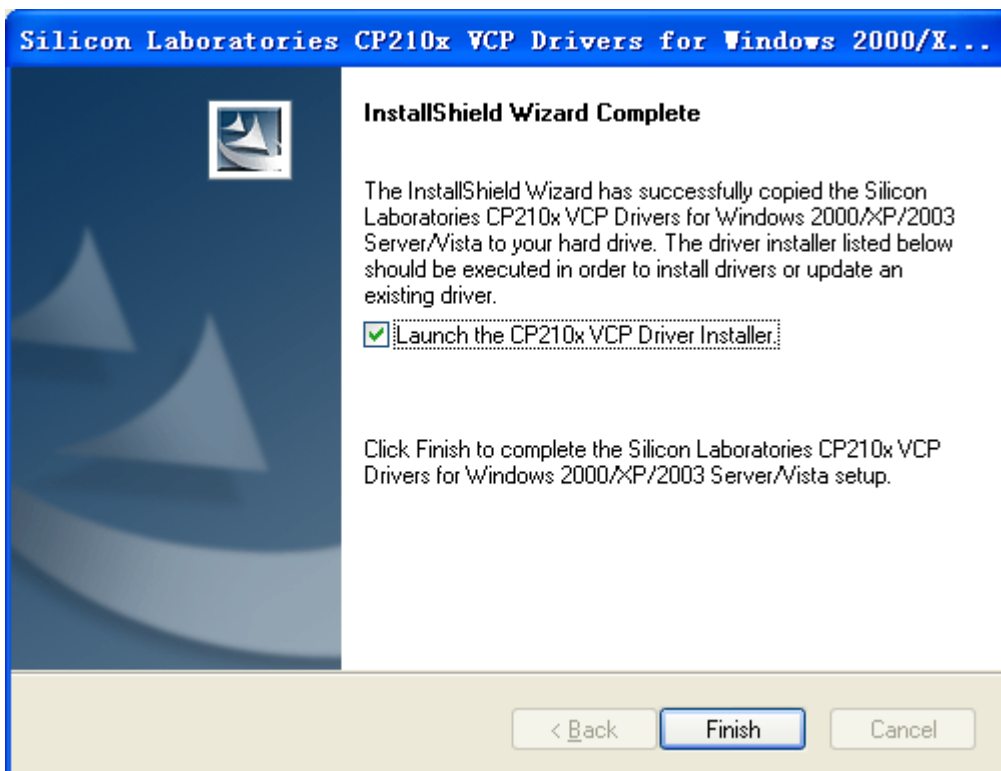


Figure 7

(6) Be sure to select “Launch the CP210x VCP Driver Installer”, click “Finish” as shown in figure 7, the figure 8 will appear. Click “Change Install Location” to specify the install destination. Then click “Install”, the figure 9 will appear.

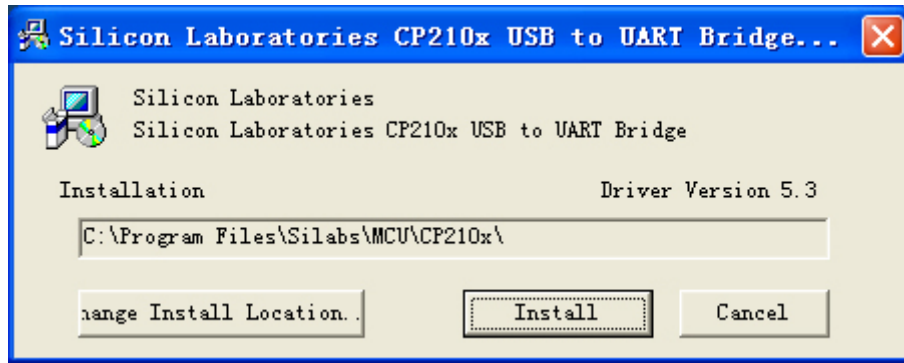


Figure 8

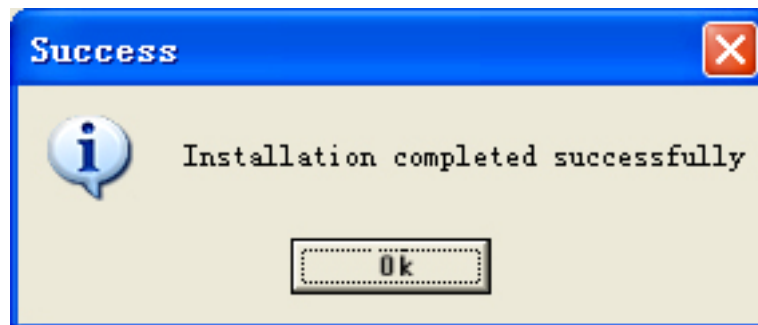


Figure 9

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