

**Satellite Finder Editor**

# **User manual**

**Version 1.00**

## **FOREWORD**

Please read this manual carefully before using your satellite finder for the first time. The technical specifications and operating methods included in this manual are subject to changes without notice. If you have any questions, please contact us.

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# Chapter I . Installation

## 1. Preparation

Before installation, you must do as follows:

First, confirm the computer can boot up normally.

Second, confirm **WINDOWS XP** has been installed in this computer.

Third, check if our software have been installed in this computer as follows:

A. Check if there is a shortcut icon on the computer desktop, as below:



Fig.1.1-1

B. Check if there is a shortcut icon in “Start” -> “All program”, as figure 1.1-1.

If any one condition come true, it means that our software has been installed in the computer, so you need not to continue installation.

## 2. Install software

➤ 1). Run the installation:

First, you must download this software package from our web site, and unpack it, then you can find the list of directory as follows:

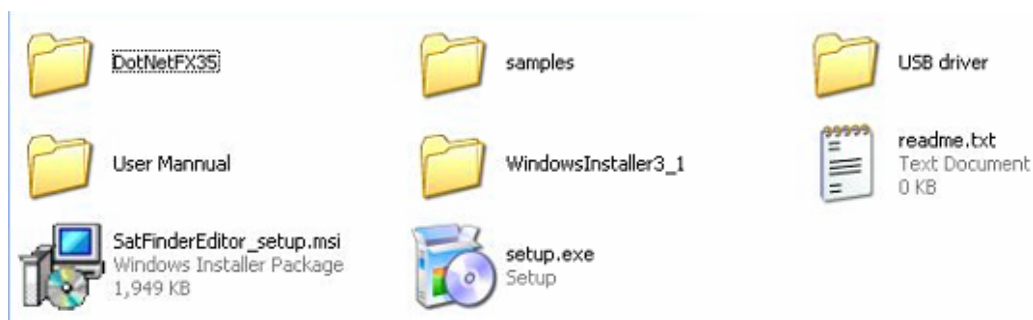


Fig.1.2-1

➤ Double click icon “setup.exe”, you will come into installation interface as shown below:

If your computer has been installed with Microsoft.NET Framework 3.5, you will go into applicable software installation directly by double clicking icon “setup.exe”, as shown in Figure 1.2-5.

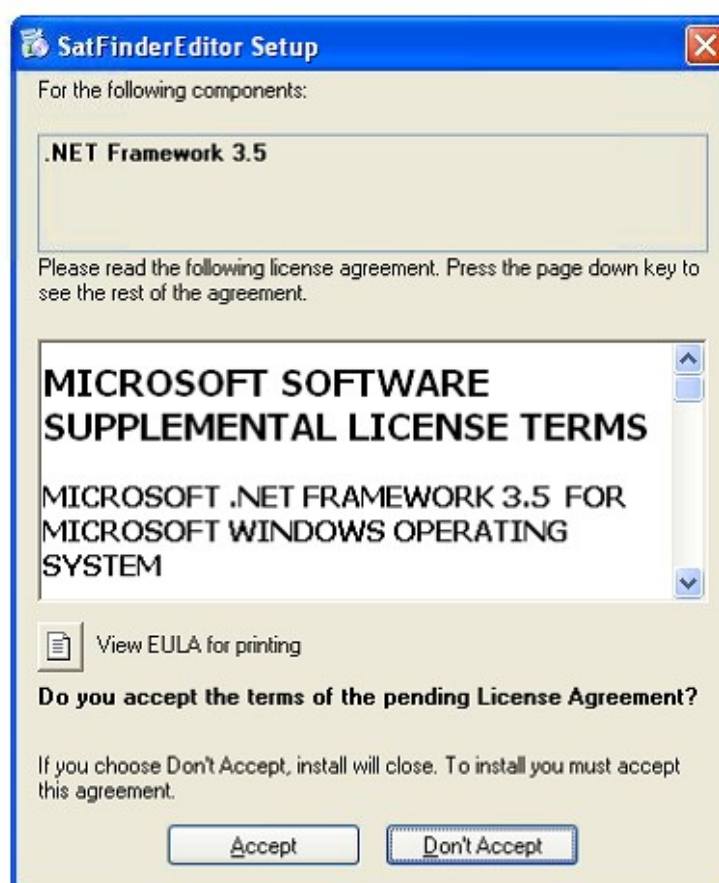


Fig.1.2-2

➤ Click “Accept”, you will see the information on screen as follows:

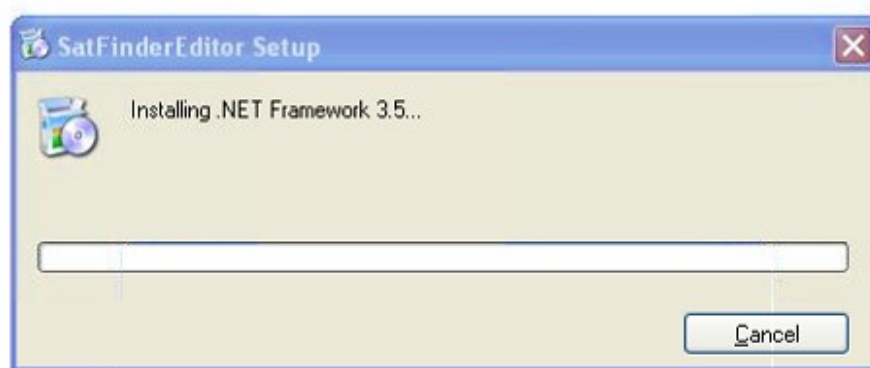


Fig.1.2-3

- A few minutes later, you can see the display as shown in Figure 1.2-4.

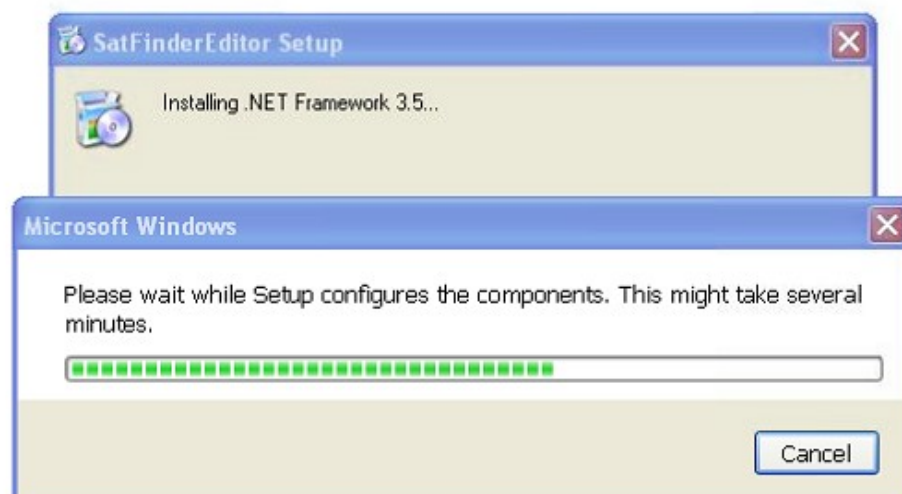


Fig.1.2-4

- At this time, you must wait a moment, and then our satellite finder editor installation will go on as below:



Fig.1.2-5

- Click “Next”, the display will show as follows. You can select installation folder by clicking “Browse”. The default installation folder is C:\program files\SatFinderEditor\.

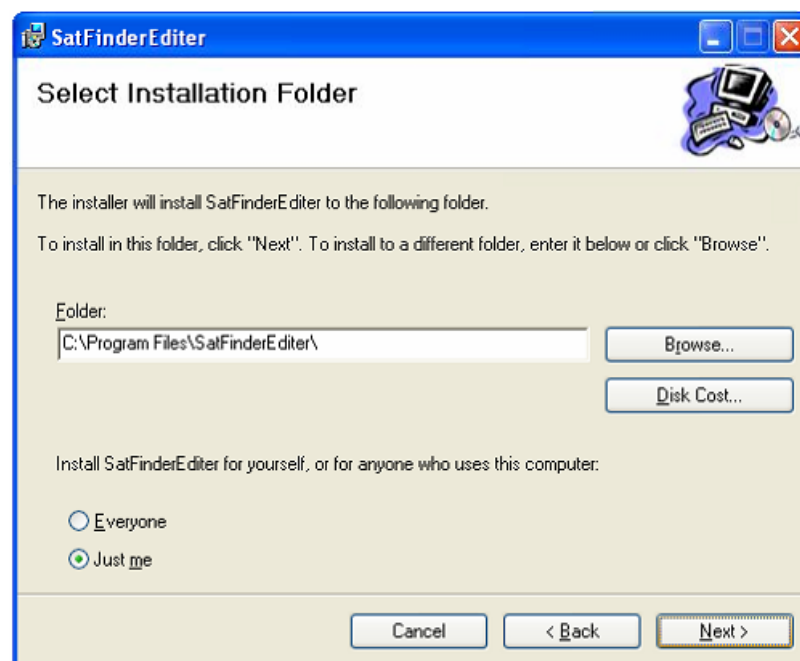


Fig.1.2-6

- Click “Next”, the on-screen information will show as below:

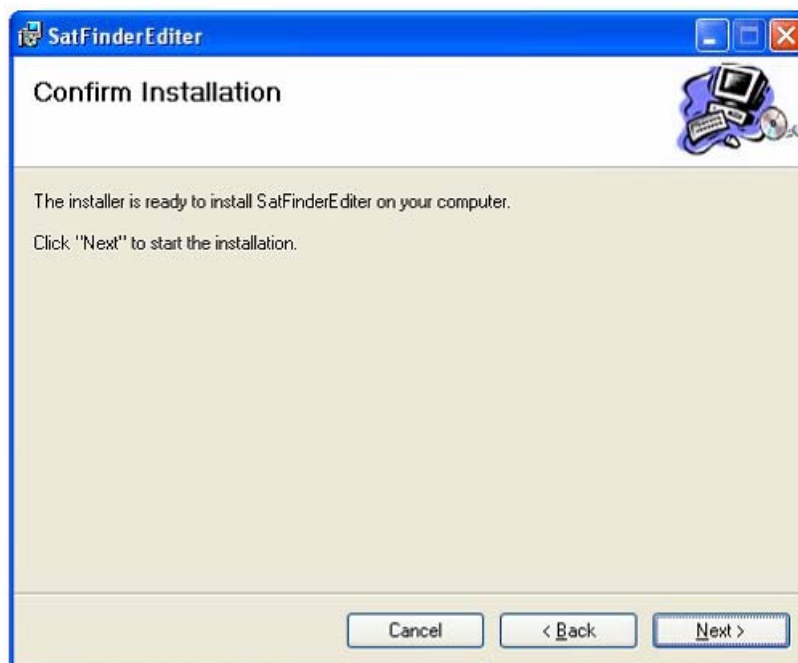


Fig.1.2-7

- Click “Next”, the software installation will go on. At last, you can see the on-screen information as below:

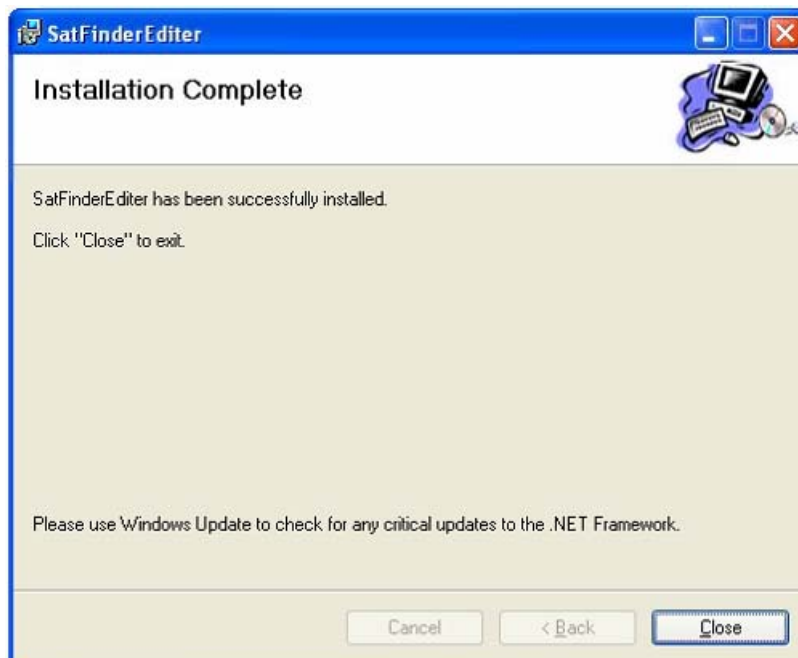


Fig 1.2-8

- Click “Close”, the software installation will be complete!



At this time, the computer desktop will display an icon, as shown below. Double click the icon, you can come into the satellite finder editor software.



Fig.1.2-9

### 3. Uninstall software

Method 1:

- Double click installation software icon “setup.exe”, you can uninstall or re-install our application software, as shown below:  
Select “Remove SatFinderEditor” to uninstall software  
Select “Repair SatFinderEditor” to re-install software



Fig.1.3-1

Method 2:

- Select “Control Panel” -> “Add or Remove Programs”, you can find our application software icon as below:

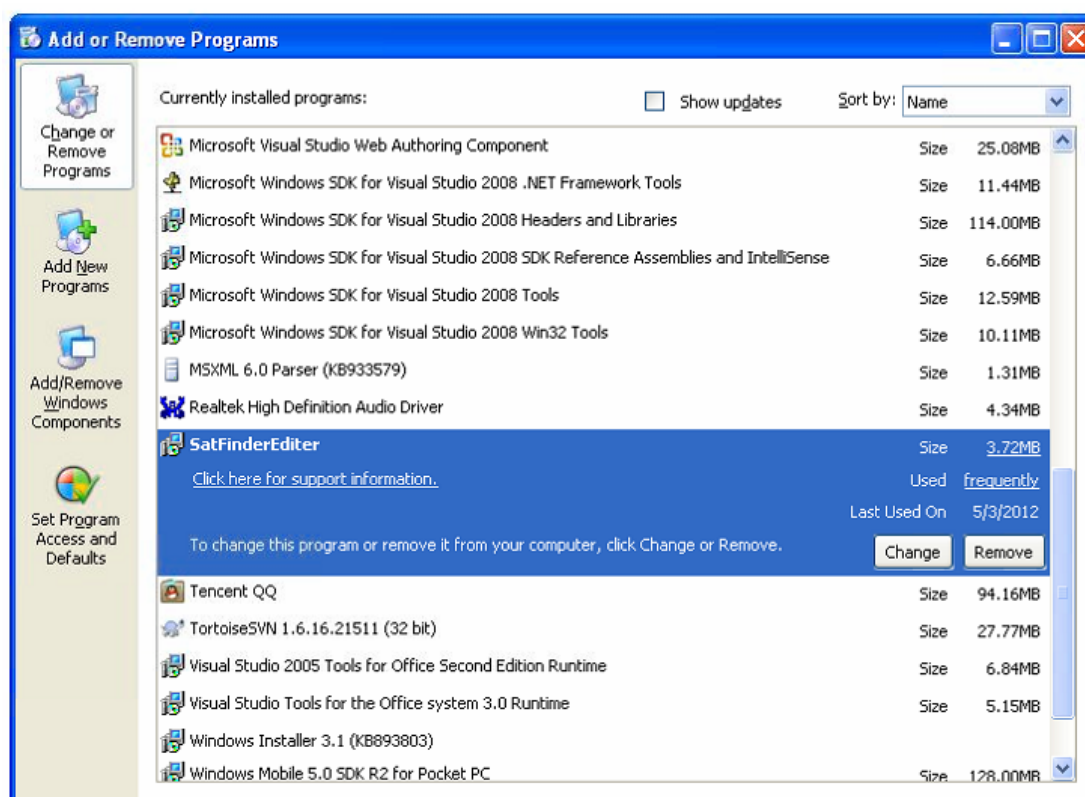


Fig.1.3-2

- Click “Remove”, the on-screen information will show as below:

At this time, you can click “Yes” to remove software, or click “No” to cancel uninstall.

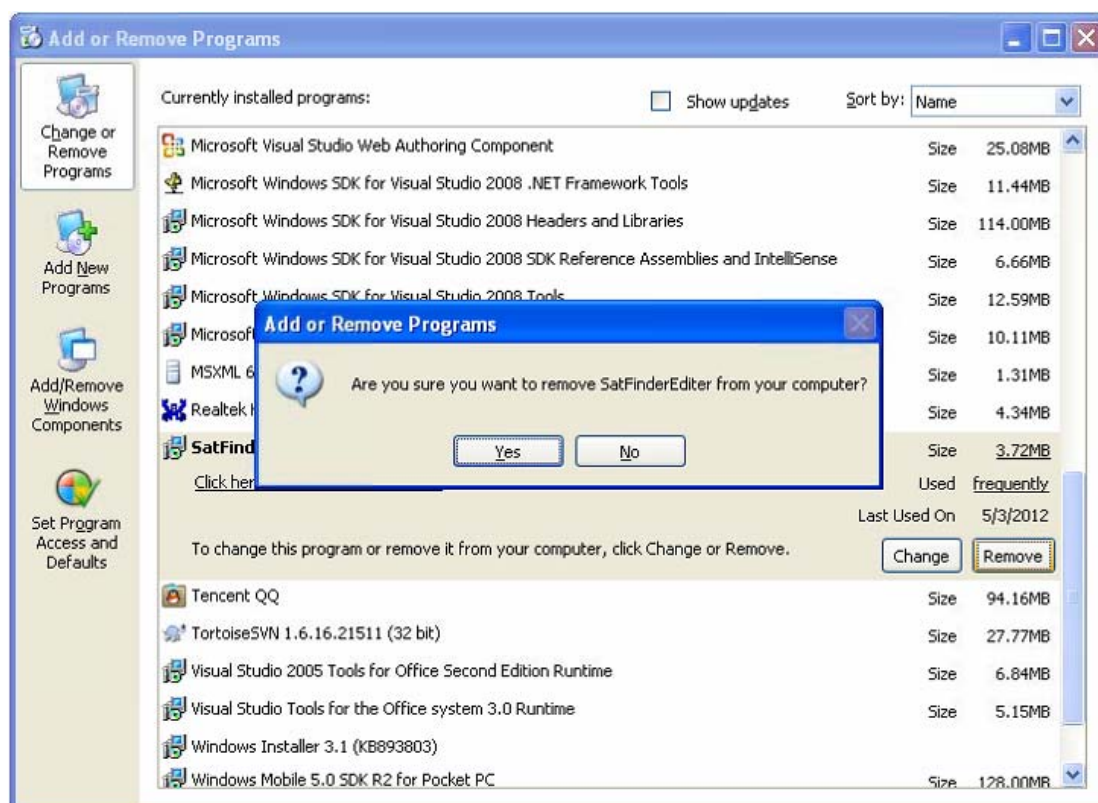


Fig.1.3-3

## 4. Install the port driver

- When you connect the computer through USB cable with our satellite finder for the first time, the computer will find this new hardware, and give you a wizard to install driver as below.



Fig.1.4-1

- Select “Install from a list or specific location (Advanced)”, click ”Next”, you can see the following message.

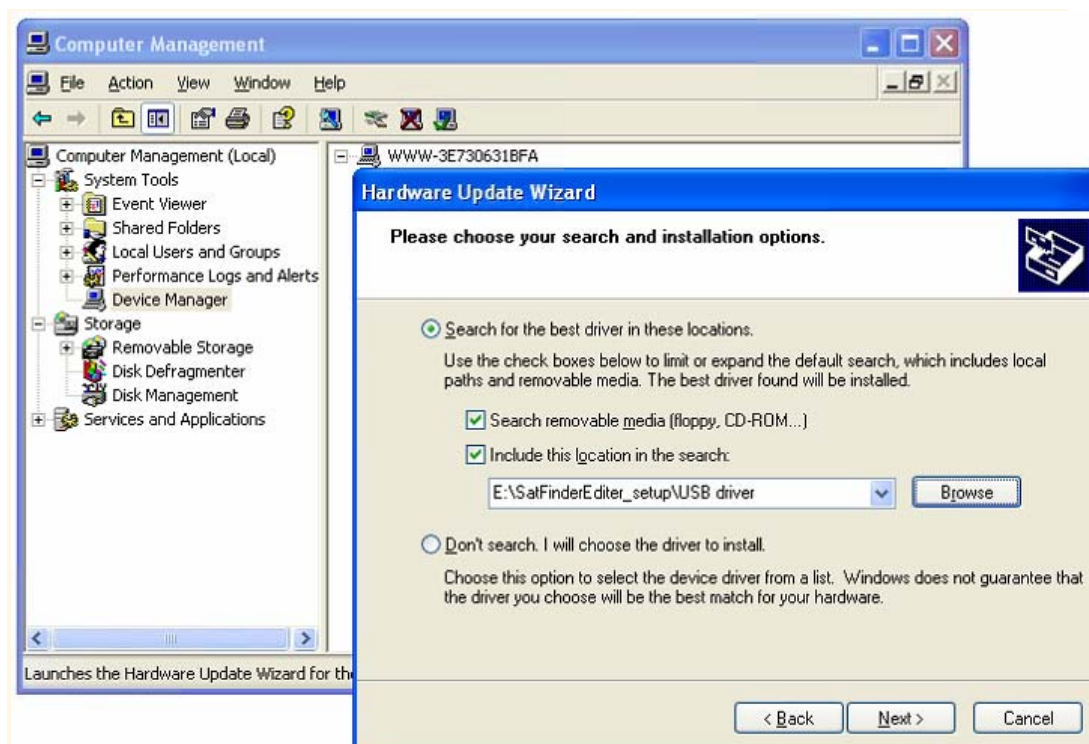


Fig.1.4-2

- There is a USB driver file in our software installation packet, its name is lpc17xx-vcom. Click “Browse”, choose the folder where “lpc17xx-vcom” is located.

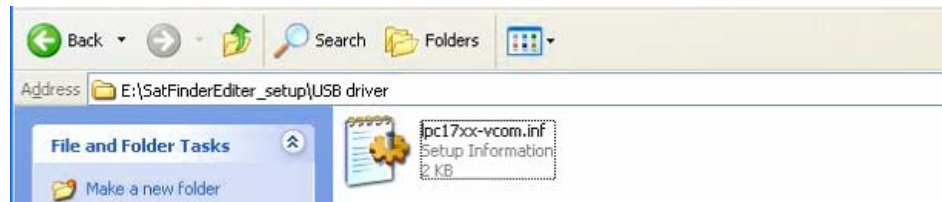


Fig.1.4-3

- Click “Next”, the driver installation will go on. When the driver has been installed, you can see the following message.

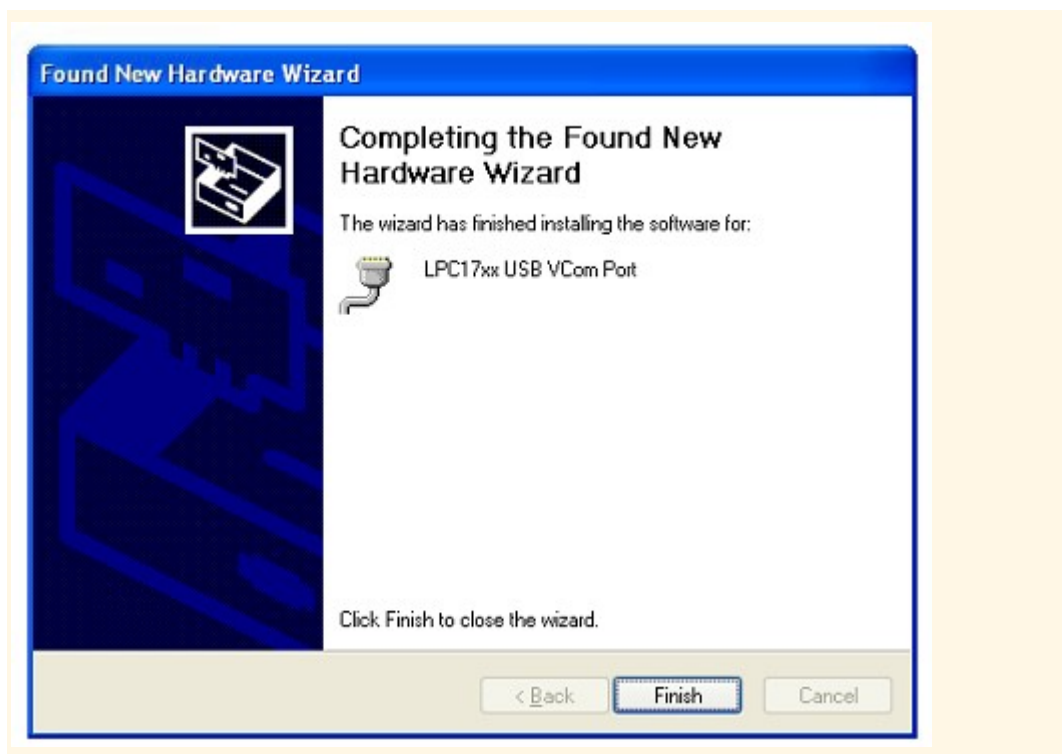


Fig.1.4-4

- Click “Finish” to exit the installation.

How check whether the installation has succeed

- ✚ You can right click My Computer -> Manage -> Device Manager ->

ports(COM&LPT).

- ✚ If the installation is success, you will see the message outlined in red, as shown in figure 1.4-4, otherwise, as shown in figure 1.4-5.

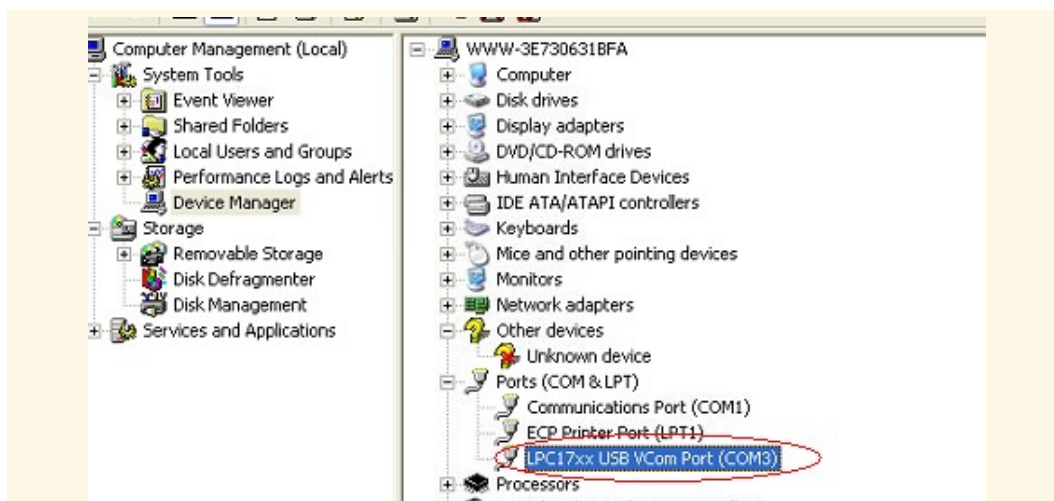


Fig.1.4-4

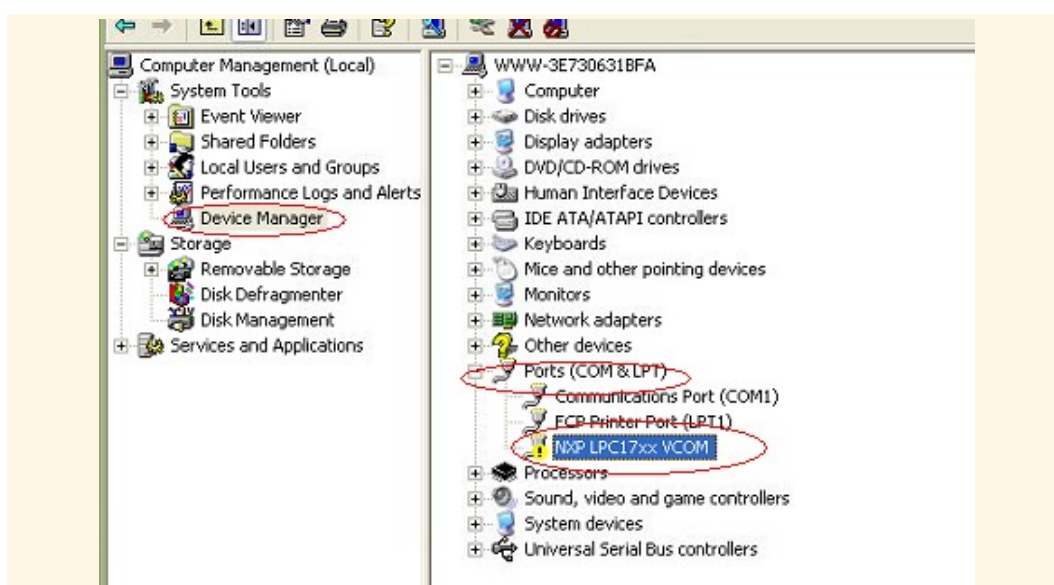


Fig.1.4-5

- ✚ If the display is as shown in figure 1.4-5, you can right click “NXP LPC17xx VCOM” , choose ”Update Driver”(as shown in Fig.1.4-6), then the USB driver installation will restart again.



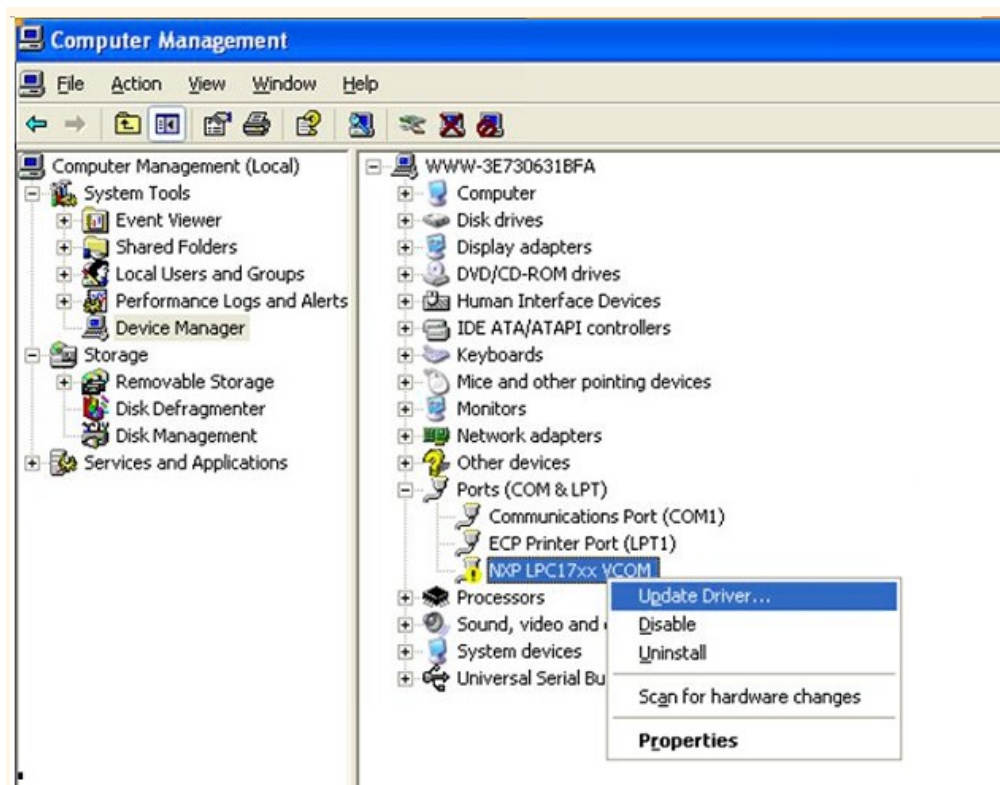


Fig.1.4-6

## **Chapter II . Software function**

### **1. Description**

#### **1.1 Introduction**

This software provides a menu-driven interface, user can edit satellite and transponder parameters easily. All kinds of parameters can be stored in the computer. The software can communicate with satellite finder through the USB interface, provide data updates, or upload satellite and transponder parameters.

#### **1.2 Interface**

When you run this program, the main window display as figure 2.1.2-1. Each function diagram is described as follow:



main window:

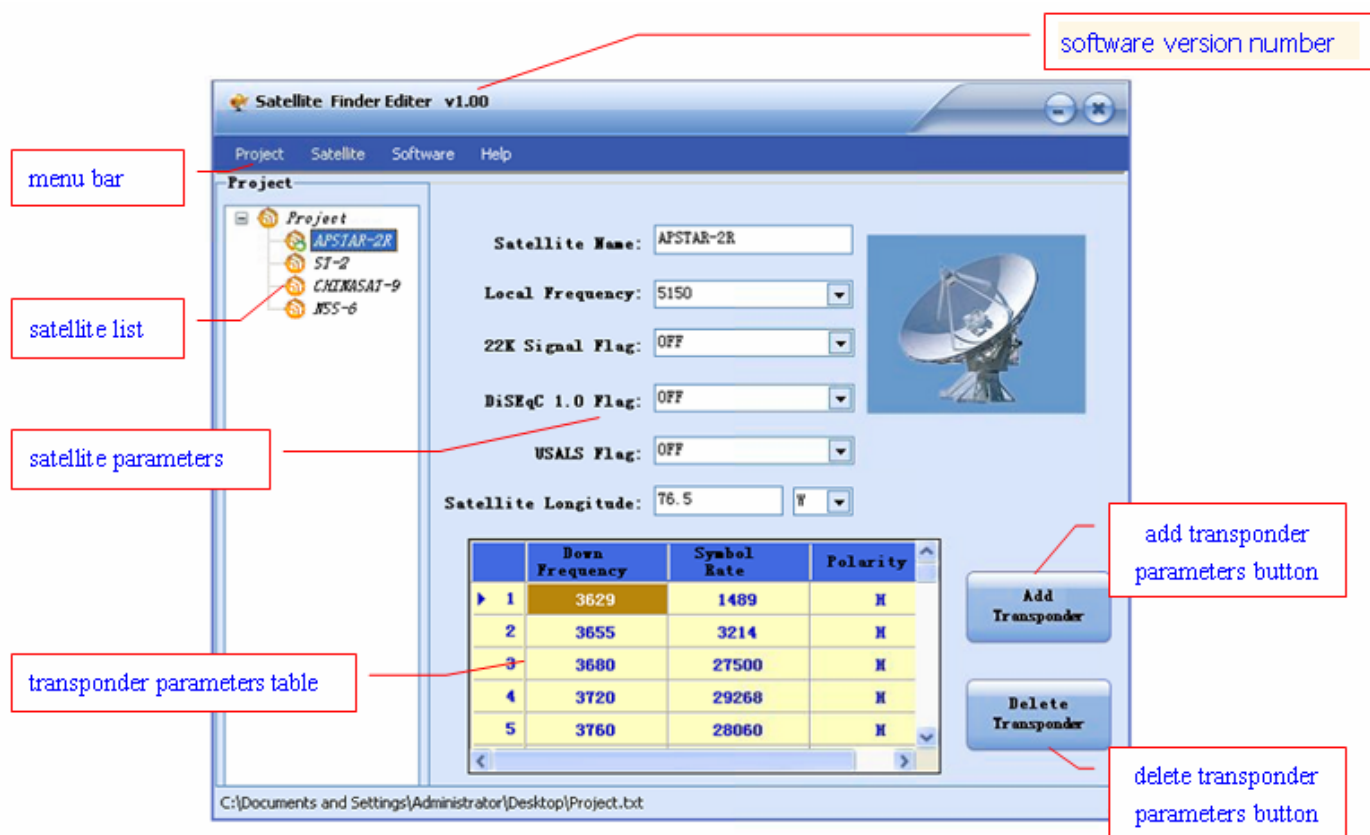
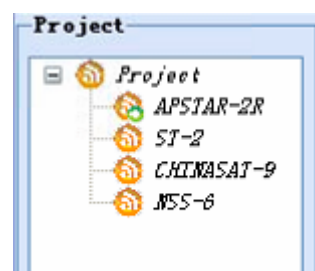


Fig. 2.1.2-1

menu bar:



satellite list:



## satellite parameters:

Satellite Name:

Local Frequency:  ▼

22K Signal Flag:  ▼

DiSEqC 1.0 Flag:  ▼

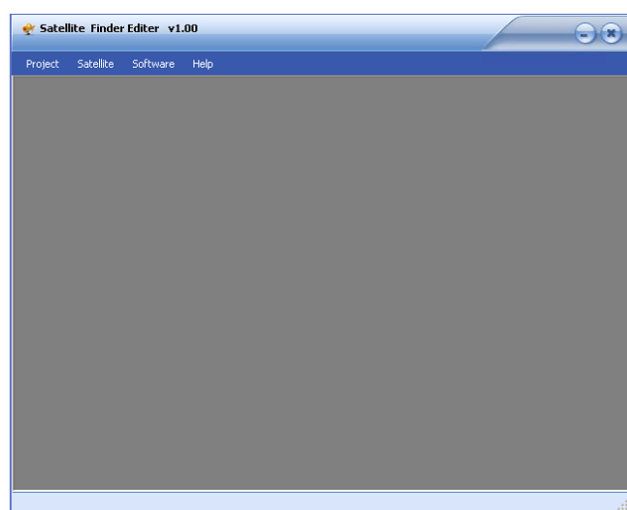
USALS Flag:  ▼

Satellite Longitude:  W ▼

## transponder parameters table:

	Down Frequency	Symbol Rate	Polarity
▶ 1	3629	1489	H
2	3655	3214	H
3	3680	27500	H
4	3720	29268	H
5	3760	28060	H

## initial window:



## 2. Software operation

### 2.1 Project -> New

In the main window, click on the “New” (Figure 2.2.1-1) item, a dialog box will pop up, as shown in Figure 2.2.1-2.



Fig. 2.2.1-1

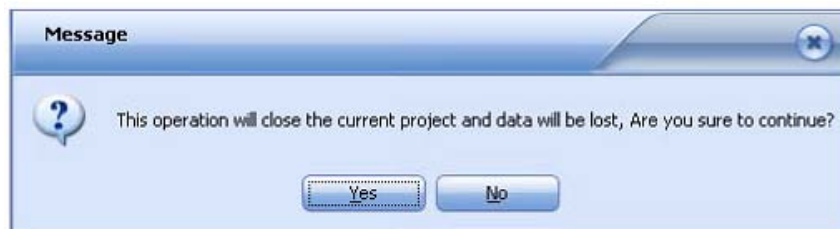


Fig. 2.2.1-2

Click "Yes", "new project" interface will be displayed as Figure 2.2.1-3.

#### WARNING:

- a. In the new project, all parameters will be at default value.
- b. New project name can not be empty.

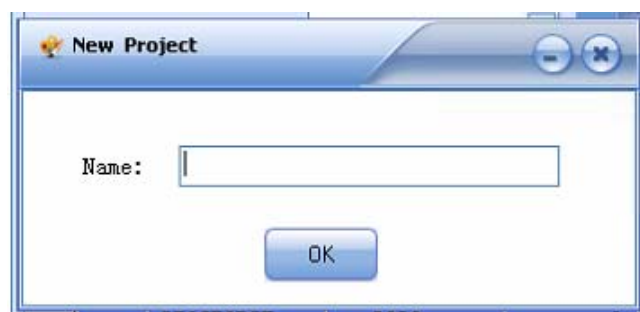


Fig. 2.2.1-3

## 2.2 Project -> Open

- A. In the main window, click on the “Open” (Figure 2.2.2-1) item, a new dialog box will pop up, as shown in Figure 2.2.2-2.

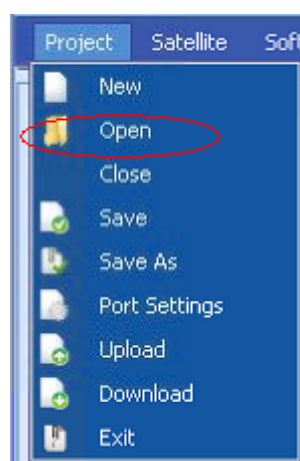


Fig. 2.2.2-1

- B. Select the file that you want to open, and press “Open”, the project will be open and it’s satellite and transponder data will be loaded.

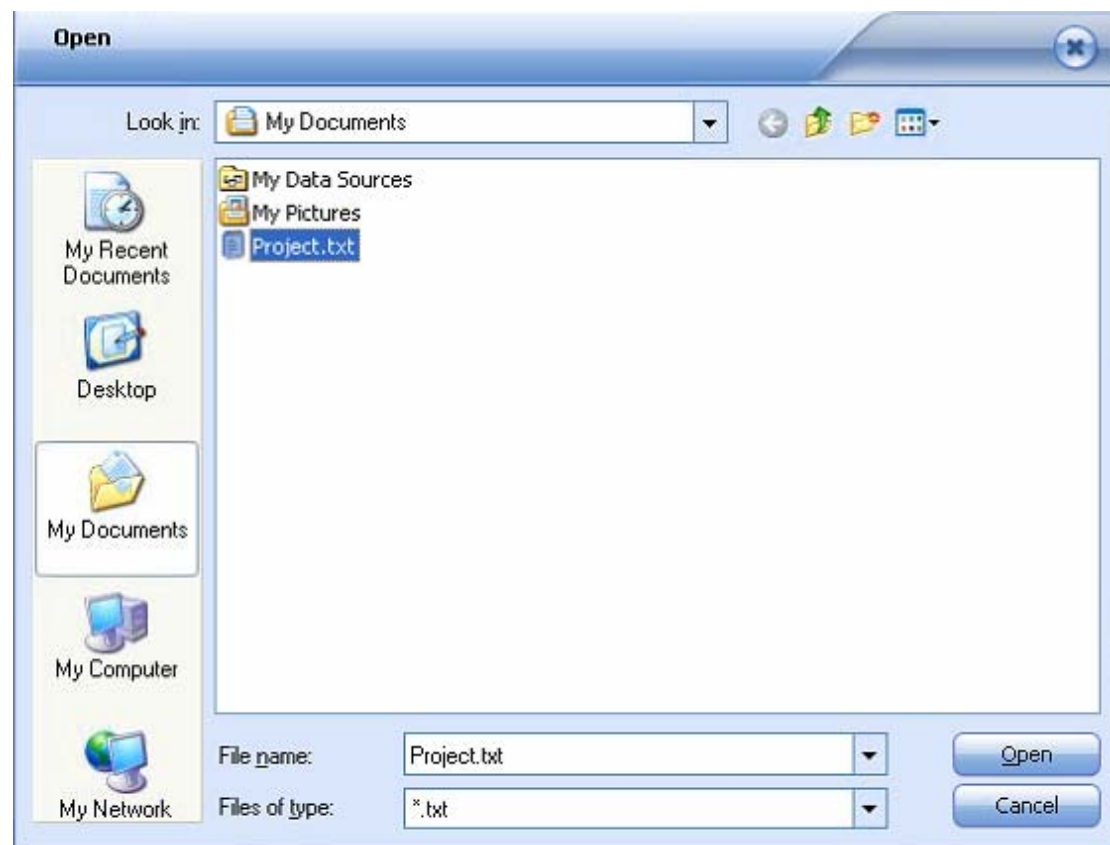


Fig. 2.2.2-2

## 2.3 Project -> Close

- A. In the main window, click on the “Close” (Figure 2.2.3-1) item, a new dialog box will pop up, as shown in Figure 2.2.3-2.

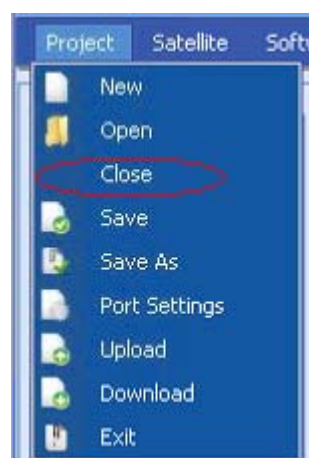


Fig. 2.2.3-1

B. Select “Yes”, current project will be saved, and then closed;

Select “No”, current project will be closed, but not be saved;

Select “Cancel”, “Close” operation will be canceled.

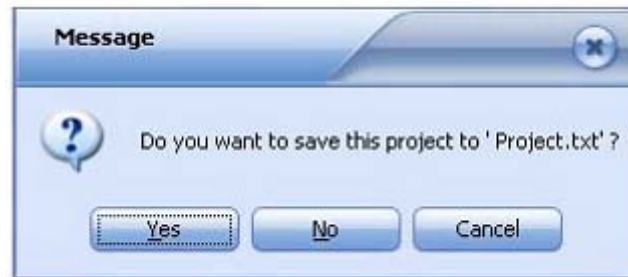


Fig. 2.2.3-2

## 2.4 Project -> Save

A. If the project is new, and you click on the “Save” (Figure 2.2.4-1) for the first time, a dialog box will pop up, as shown in Figure 2.2.4-2.



Fig. 2.2.4-1

B. Choose the path and input the file name you want, then press “Save”, the current project and it’s satellite and transponder data will be saved in text format.

C. If the current project is old or has been saved before, you click on the

“Save”, the project will be saved directly.

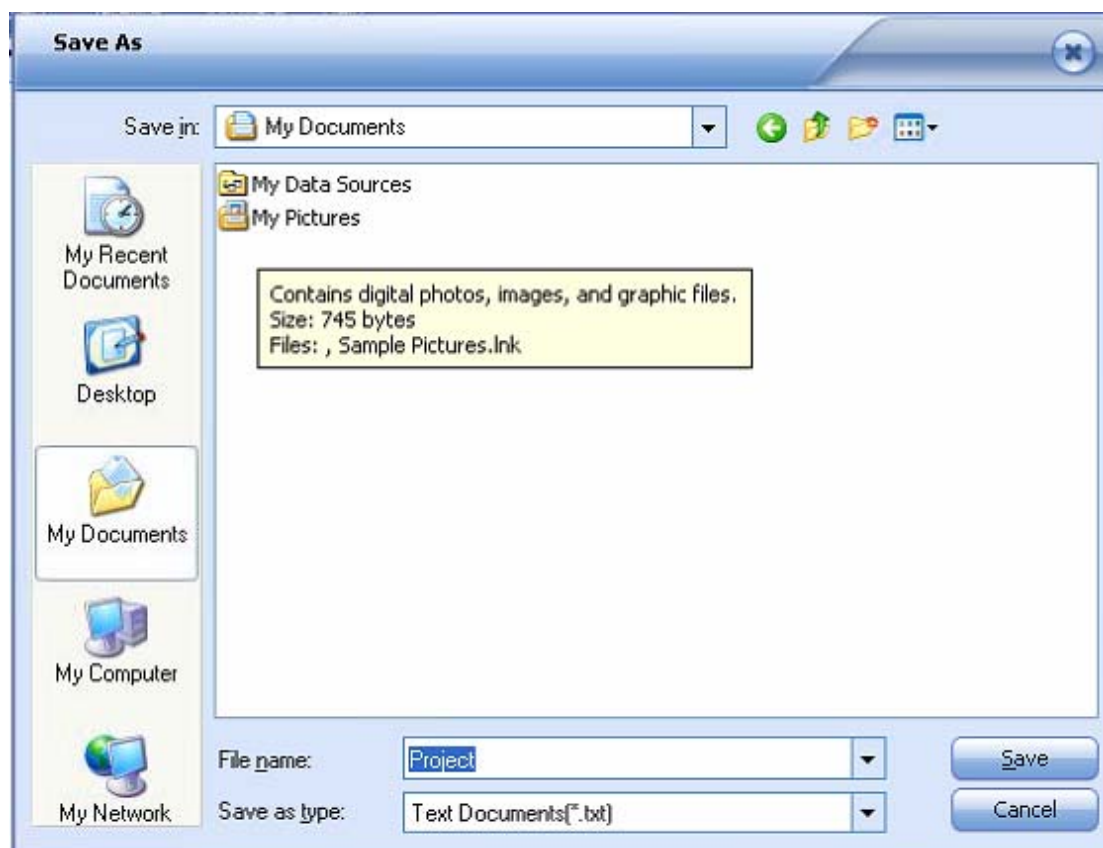


Fig. 2.2.4-2

## 2.5 Project -> Save As

Click on the “Save As” (Figure 2.2.5-1), a dialog box will pop up, it looks like the same as Figure 2.2.4-2. At this time, you can do as **“Project -> Save”** to save current project data.



Fig. 2.2.5-1

## 2.6 Project -> Port Settings

A. Before setting USB communication parameters, you must do as follows:

- a. Check whether the USB port driver has been installed. If it has been installed, then you can continue to next step; If it has not installed, please refer to the [Installation the port driver](#).
- b. Connect the computer to satellite finder with the accessional USB cable. If the connection is successful, the satellite finder will show as Figure 2.2.6-1.



Fig.2.2.6-1



B. Click on the “Port Settings” (Figure 2..2.6-2), a dialog box will pop up, as shown in Figure 2..2.6-3.

C. Choose the “Port Name”, “Baud Rate” and “Data Bits” value from the drop-down box.

- ◆ Port Name: Serial port number mapping the USB connection.
- ◆ Baud Rate: message transmission rate.
- ◆ Data Bits: basic data unit digit.



Fig. 2.2.6-2

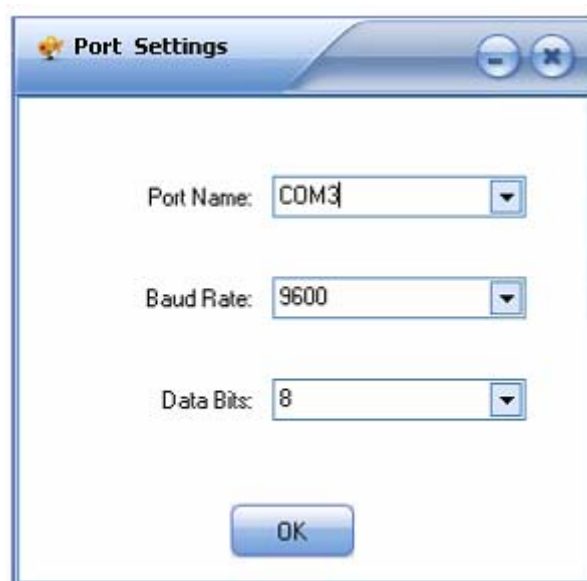


Fig. 2.2.6-3

## 2.7 Project -> Upload

- A. First, you must set the USB communication parameters, See [“2.6 Port Settings”](#).
- B. Click on the “Upload” (Figure 2.2.7-1), you can see that a dialog box will pop up, as shown in Figure 2.2.7-2.



Fig. 2.2.7-1

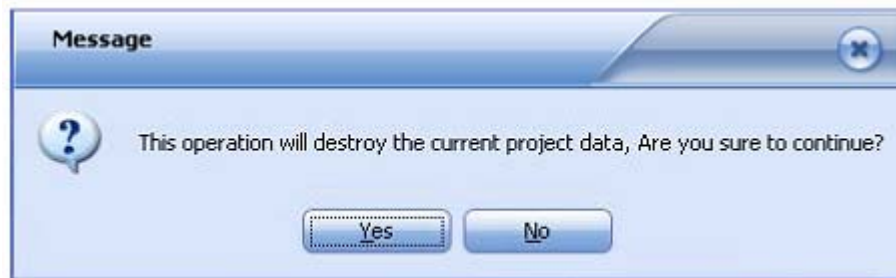


Fig. 2.2.7-2

- C. Click on the "Yes", a few minutes later, you can see the parameters are uploaded successfully, on-screen display show as Figure 2.2.7-3 .

### WARNING:

- “Upload” operation will remove all parameters in the current project.
- Before uploading the satellite finder’s data, you must set the USB

communication parameters.

c. Do not power off or unplug USB cable during uploading data.



Fig. 2.2.7-3

## 2.8 Project -> Download

A. First, you must set the USB communication parameters, See [“2.6 Port Settings”](#).

B. Click on the “Download” (Figure 2.2.8-1), you can see that a dialog box will pop up, as shown in Figure 2.2.8-2.



Fig. 2.2.8-1

C. Click "Yes", a few minutes later, you can see the parameters are downloaded successfully, and on-screen display show as Figure 2.2.8-3.



Fig. 2.2.8-2



Fig. 2.2.8-3

**WARNING:**

- a. “Download” operation will update all parameters in your satellite finder.
- b. Before downloading the satellite finder’s data, you must set the USB communication parameters.
- c. Do not power off or unplug USB cable during downloading data.

**2.9 Project -> Exit**

Click on the “Exit” (Figure 2.2.9-1), or the button at top right corner(Figure 2.2.9-2), you can quit the software.

If the project data have not been edited, above “Exit” operation will quit the software directly.

If the project data have been edited, a dialog box will pop up, as

shown in Figure 2.2.9-3. At this time, you can choose save, not save, or cancel the operation separately.

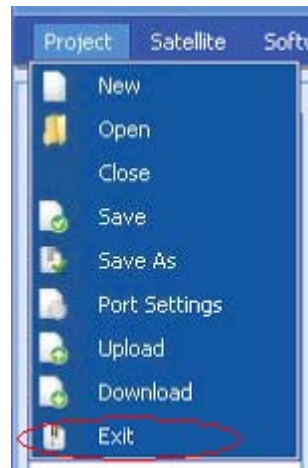
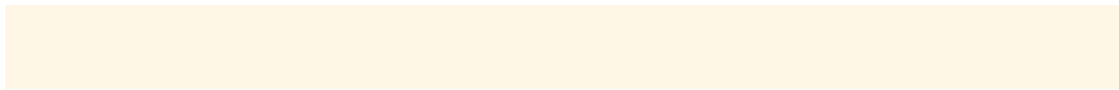


Fig. 2.2.9-1



Fig. 2.2.9-2

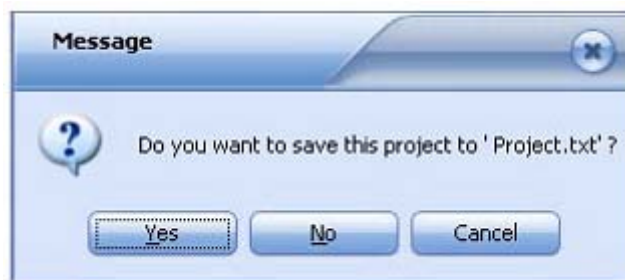


Fig. 2.2.9-3

## 2.10 Satellite -> Add Satellite

- A. Click on the “Add Satellite” (Figure 2.2.10-1), a dialog box will pop up, as shown in Figure 2.2.10-2.



Fig. 2.2.10-1

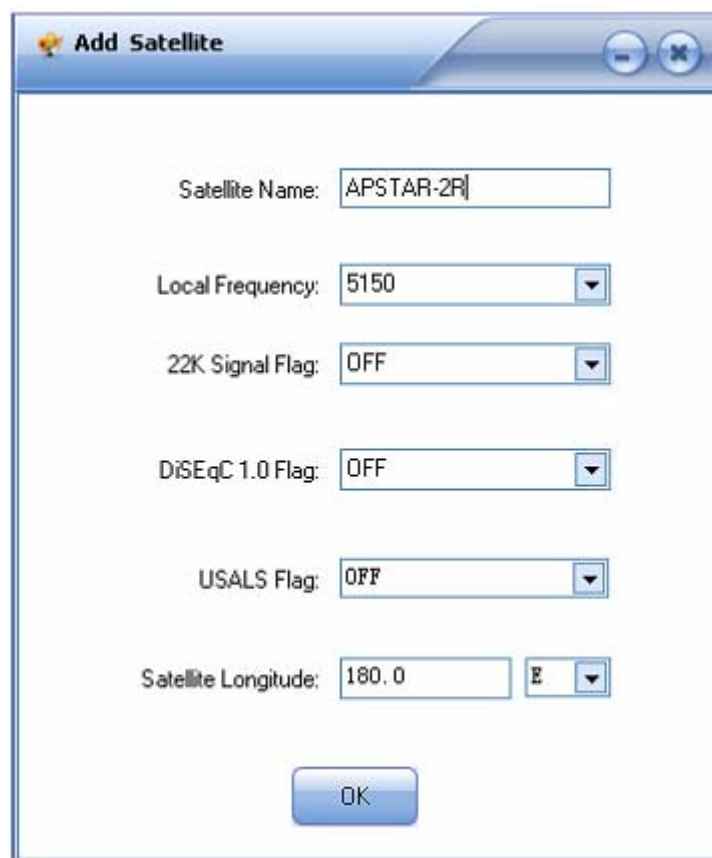


Fig. 2.2.10-2

- ◆ Satellite Name: the satellite name is composed of letters and numbers, it must be unique.
- ◆ Local Frequency: local Frequency is composed of numbers, up to 99999.
- ◆ 22K Signal Flag: in the drop-down box, you can select ON or OFF. “ON” means that 22K signal output is enabled, and “OFF” means that 22K signal output is disabled.
- ◆ DiSEqC1.0 Flag: choose your desired DiSEqC port in the

drop-down box.

- ◆ **USALS Flag:** you can choose ON or OFF from the drop-down box, ON means USALS function is enabled, OFF means disabled.
- ◆ **Satellite Longitude:** this parameter presents the satellite location in the sky, it includes direction and value, you must input them accurately. In especial, when USALS is enabled, software will calculate the parameter to control USALS MOTOR, according to above longitude and local parameters.

B. When you finish edit, press “OK” to add.

## 2.11 Satellite -> Delete Satellite

- A. In the main window, select the satellite you want to delete, then click on the “Delete Satellite” (Figure 2.2.11-1), a dialog box will pop up, as shown in Figure 2.2.11-2.

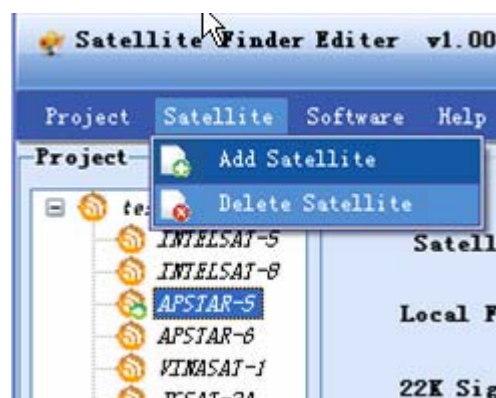


Fig. 2.2.11-1

- B. Select "Yes" to finish the deletion, or select “No” to cancel.



Fig. 2.2.11-2

## 2.12 Satellite -> Modify satellite

- A. In the satellite list of main window, select the satellite you want to modify.
- B. In satellite parameters area, use the drop-down boxes to select the desired values, or input the desired value directly in the text box.
- C. Repeat step B to those satellite parameters you want to change.
- D. Definition of parameters refer to **Satellite -> Add Satellite**.

It is best to move the cursor and view and check again after change the parameters

## 2.13 Add Transponder

- A. In the satellite list of main window, select the desired satellite.
- B. Click on the “Add Transponder” button (Figure 2.2.13-1), a dialog box will pop up, as shown in Figure 2.2.13-2.
  - ◆ Down Frequency: up to five digits composition.
  - ◆ Symbol Rate: up to five digits composition.
  - ◆ Polarity: Only ‘V’ or ‘H’ is valid.



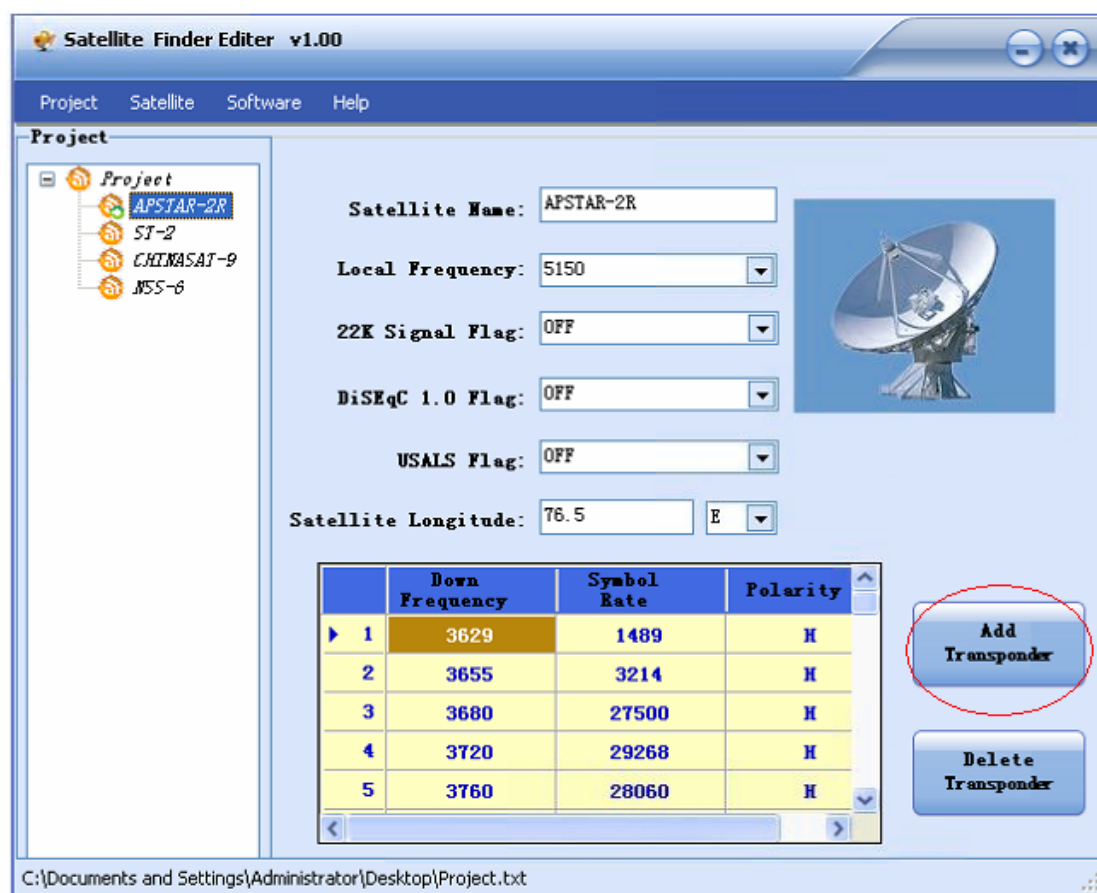


Fig. 2.2.13-1

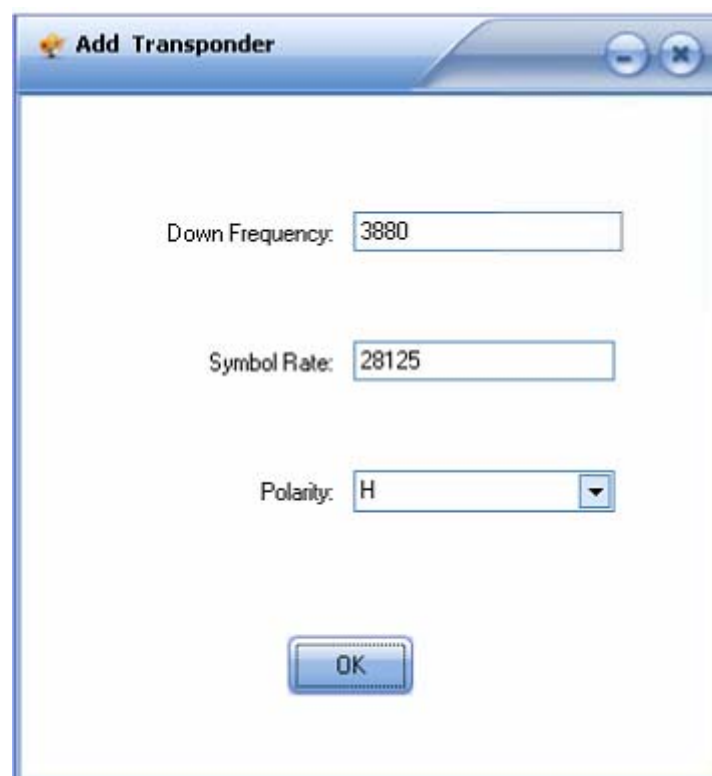


Fig. 2.2.13-2

## 2.14 Delete Transponder

- A. In the satellite list of main window, select the desired satellite.
- B. In the table of transponder parameters, choose the transponder that you want to delete by clicking on the row head. You can use “Ctrl” key to select multiple rows.
- C. Repeat step B for those transponder parameter rows you want to delete, just like Figure 2.2.14-1.

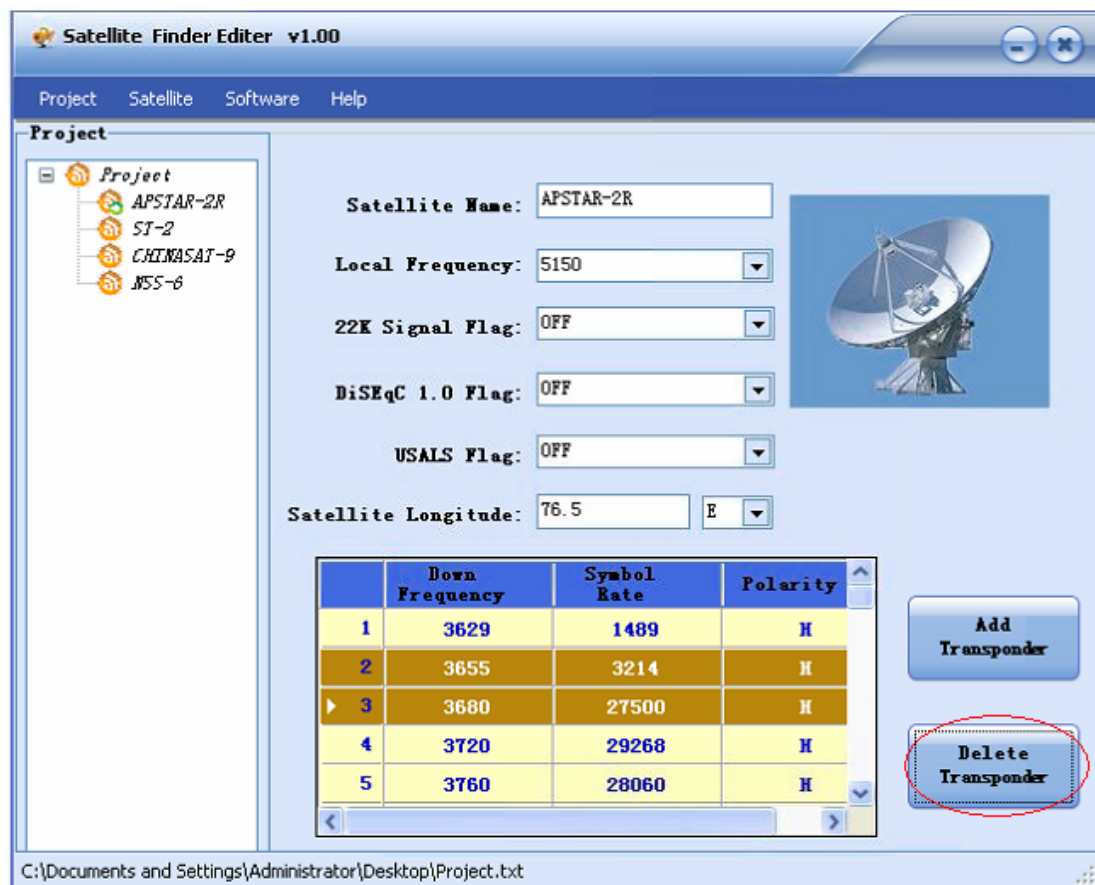


Fig. 2.2.14-1

- D. Click on the “Delete Transponder” button, a dialog box will pop up, as shown in Figure 2.2.14-2.
- E. Choose "Yes" to finish the deletion, or “No” to cancel the deletion.



Fig. 2.2.14-2

## 2.15 Modify Transponder

- A. In the satellite list of main window, select the desired satellite.
- B. Choose the parameter you want to modify in the table of transponder parameters, and input your desired value.
- C. Repeat step B for those transponder parameters you want to change.

It is best to move the cursor and view and check again after changing the parameters

## 2.16 Software -> Software Upgrade

This function is reserved for later use.