

Chapter 1 Introduction of TVGo DVB-T01

1.1 Introduction

The TVGo DVB-T01 can turn your notebook or desktop PC into a personal digital TV. It receives free-to-air terrestrial broadcasting signal through the USB interface to let you watch digital TV on your notebook or desktop PC. You can watch TV within a window or full screen. The compact size design makes it easy for you to take it anywhere. With the remote controller, there is no distance limitation to control your TV channel. You can watch TV, video record and playback high quality digital video programs on your notebook or desktop PC. With digital technology today, TVGo DVB-T01 lets you record digital TV programs to your computer, watch TV, record TV programs, preview TV channels and use the Time-Shift function without missing any programs. These functions supported by TVGo DVB-T01 make this a product you don't want to miss.

1.2 Package contents:

- TVGo DVB-T01 x 1
- USB 2.0 cable x 1
- Portable Digital TV Antenna x 1
- Remote Controller (includes battery) x 1
- Software Disc x 1
- Quick installation guide x 1
- Switching Head x 2

Notice: We highly recommend you use the outdoor antenna for better signal receiving quail



TVGo DVB-T01



Switching Head



Remote Controller with Battery



Software Disc



Quick Installation Guide



USB Connected Cable



Antenna

1.3 Features of TVGo DVB-T01

- Watch worldwide free-to-air digital **HDTV** and SDTV TV programs and free-to air digital radio
- Powered by **USB2.0** cable (compatible with USB1.1)
- Supports time-shifting functions to avoid missing any TV programs
- Supports real-time recording and schedule recording in MPEG-2 format
- Supports snapshot function that lets you capture your favorite images from programs and turn it into wallpaper for your PC or NB
- Supports EPG (Electronic Guide program) and Teletext function.

1.4. Minimum system requirements:

- IBM or IBM compatible computer
- CPU (MMXTM-enhanced CPU),
 - above 1.7 GHz for watching SDTV TV program
 - above 2.4 GHz for watching HDTV TV program
- 128MB system memory size
- Microsoft Windows 2000 SP4, or Windows XP SP1/SP2 operating system
- Microsoft DirectX version should be 9.0c or later
- 100MB available hard disk space (used by the driver and software),
- 3GB disk space per hour needed for TV program recording

1.5 Recommended system requirements:

- IBM or IBM compatible computer
- CPU (MMXTM-enhanced CPU),
 - above 2.4 GHz for watching SDTV TV program and recording
 - above 3.0 GHz for watching HDTV TV program and recording
- 256MB system memory
- Microsoft Windows 2000 SP4, or Windows XP SP1/SP2 operating system
- Microsoft DirectX version should be 9.0c or later
- 100MB available hard disk space (used by the driver and software)
- 3GB disk space per hour needed for TV program recording

Chapter 2 Installation

You can install the TVGo DVB-T01 easily after reading this chapter. The following sections will provide you detailed information to install the box to your PC or NB.

2.1 Brief introduction on hardware installation

The back side of the TV box



Connector	Description	Comment
1	Antenna RF-IN	Connect antenna signal to the USB TV box
2	USB Interface	Use USB cable to connect TV box and computer

Step 1. USB connection

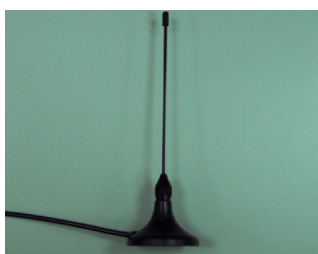
I. Connect the USB cable and the TVGo DVB-T01 as shown below.



II. Connect the other end of the USB cable to your notebook or PC as shown

**Step 2. Connect the antenna signal line**

I. Connect the TV antenna signal line to the TVGo DVB-T01 as shown below.



Notice: When the hardware is connected, you can start the software installation.

2.2 Software installation

The TVGo DVB-T01 installation includes the application and driver, follow the sections below to install the software.

1. After the computer and TVGo DVB-T01 are connected, the following window appears. Click on **"cancel"** to install the driver later.

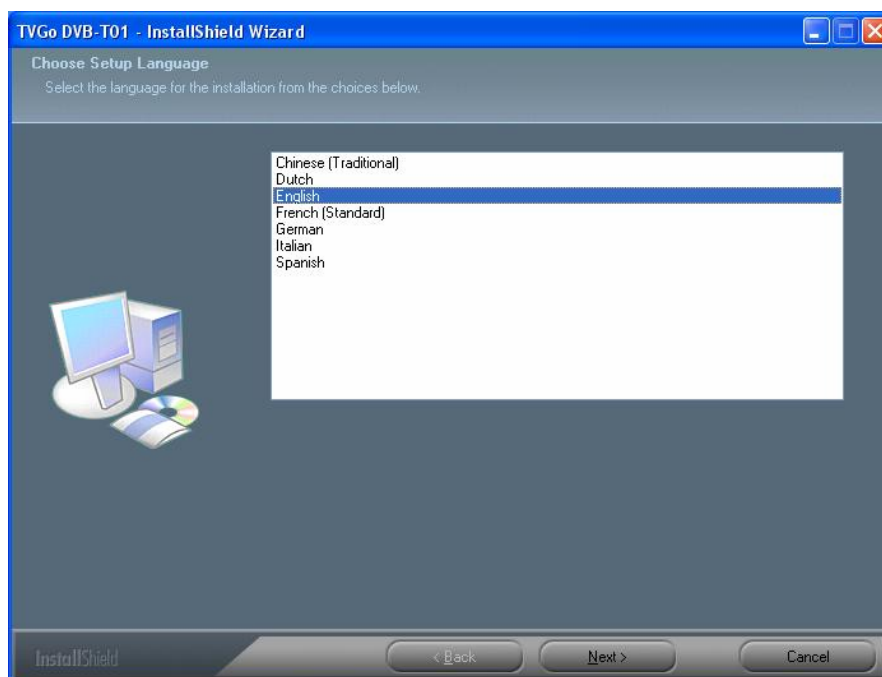


2. Please put into the software disc into your CD-ROM drive. The following window will pop up automatically.

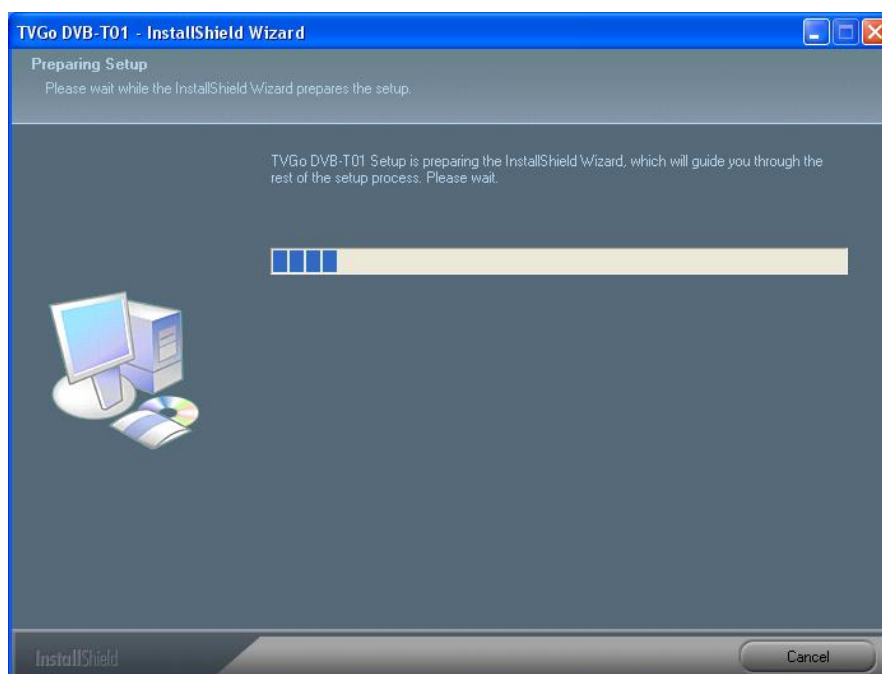


If you do not see this window, please manually run "setup.exe " from the software disc.

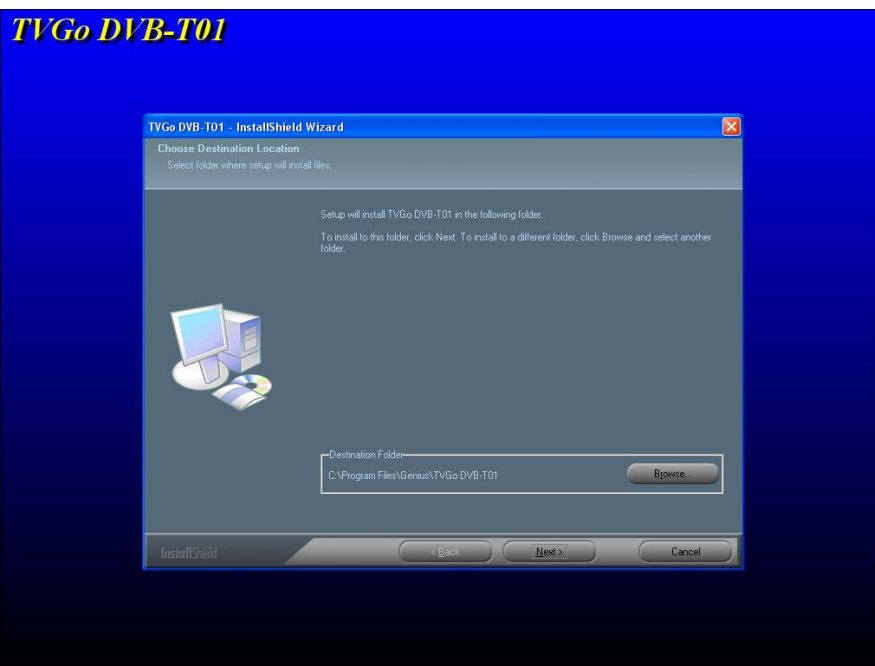
3. After entering WINDOWS, please choose the languages installed, then continue installing according to the instruction.



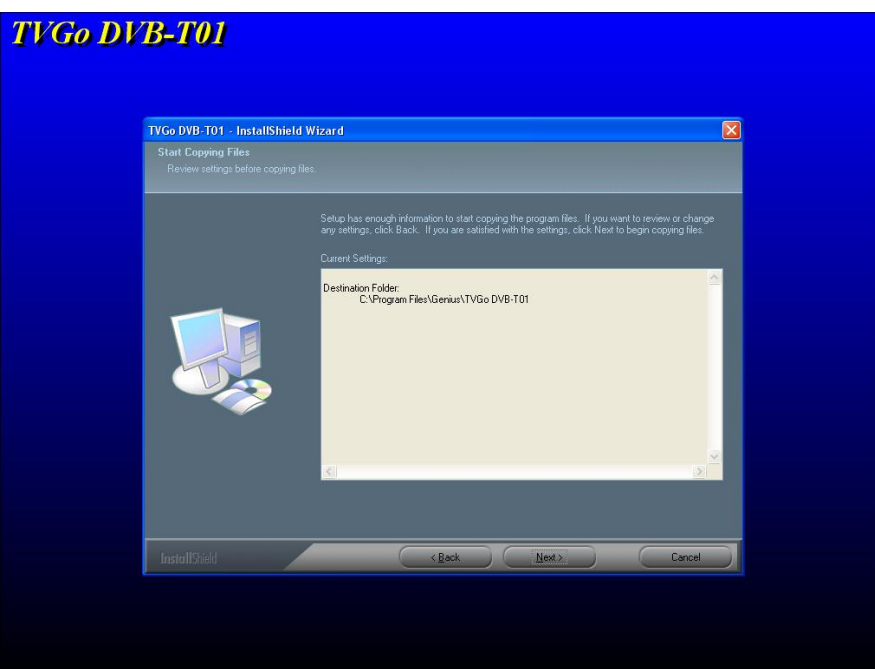
4. The installation procedure will copy the driver and application software to your PC or NB. You can choose “**Cancel**” to stop the installation procedure.



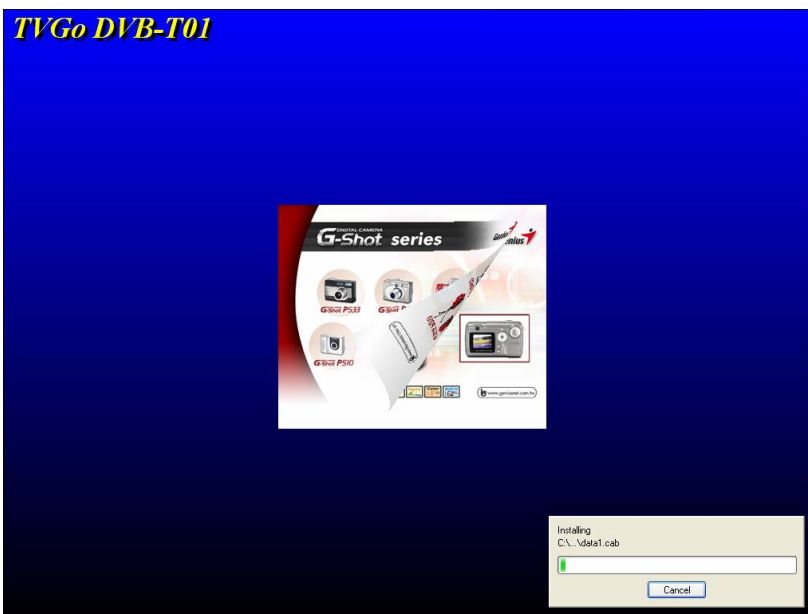
5. Please select “**Next**” to continue installing and choose the desired file folder to install and go to next step.



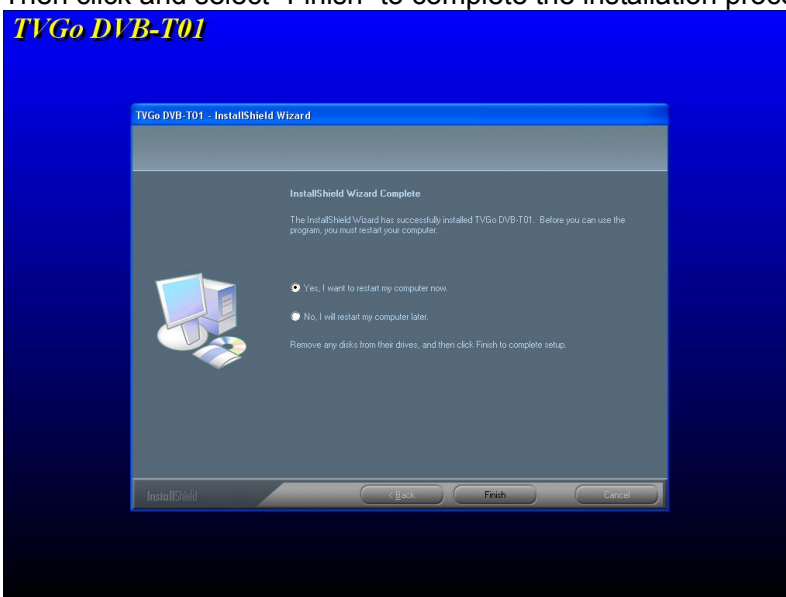
6. Please choose “Next” to continue installing according to the instruction, or “Back” to return to the last step and choose the suitable file folder to install. Or choose “Cancel”, to stop the installation.



7. The installation procedure is copying the driver to your PC or NB. You can choose “Cancel” to stop the installation procedure.



8. After the installation is done, click on **“Yes, I want to restart my computer now.”**, Then click and select **“Finish”** to complete the installation procedure.



9. The installation disc also contains Direct X 9.0c package. In order to use TVGo DVB-T01, you must install Direct X 9.0c or later version. The InstallShield will enter the DirectX 9.0c installation procedure automatically.

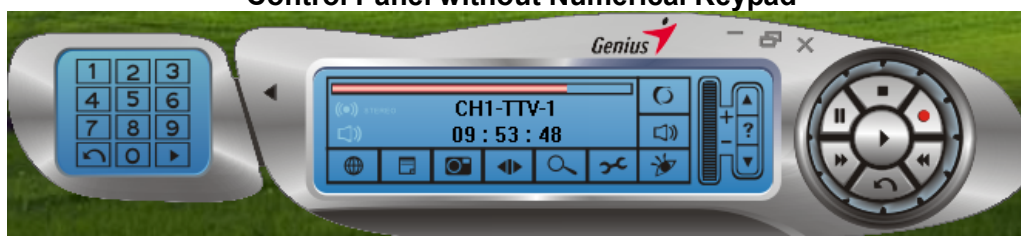
Chapter 3 Introduction of the software

It offers the strong and exhaustive function for one high-level digital TV player. Through it, you can enjoy exciting high-resolution, high-quality video and audio TV play back.

3.1 Control panel



Control Panel without Numerical Keypad



Control Panel with Numerical Keypad

Icon	Function description
	Close the TV player
	Full screen / normal screen switch
	Minimize the TVGo DVB-T01 player
	Show the information of the TVGo DVB-T01 player
	Fast forward the playback movie
	Fast backward the playback movie
	Stop the playback movie
	Pause the playback movie
	Play the previous television channel
	Record the TV program
	Choose the movie file to play
	Switch the TV channel up
	On-line help
	Switch the TV channel down
	Increase volume level
	Decrease volume level

	Volume level status display and adjustment
	Open EPG (Electronic Program Guide) of TV program
	Open or close the sound
	Watch the TV program
	TVGo DVB-T01 player system setting
	Channel preview of TV program
	Start-up time-shift
	Capture a picture of the movie
	Establish the schedule of TV recording
	Switch between bilingual
	Turn on the numerical keypad
	Shut off the numerical keypad
	Choose the television channel
	Play the previous television channel
	Status display of intensity of the terrestrial TV signal
	Mute status display
	Stereo status display

3.2 Brief introduction of basic function

Intensity index of free-to-air terrestrial TV signal

This will show the status display of strength of your television channel signal automatically.



Clock

The clock will show the time of your computer automatically ◦

18 : 00 : 59

Channel name

The channel names broadcast at present time is shown automatically ◦

CH13-CTS_IQ

Toggle for audio mute function

You can click the icon  on the control panel to turn the mute on or off. This icon represents the status of mute -  ◦

Live TV recording

If you want to record the TV program you are watching now, please click the icon on the control panel - .

Schedule TV recording

If you want to set the TV recording schedule, please choose the icon on the control panel - .

System configuration

If you want to scan TV channel, change video attribute, or set the file path of recording and capturing, please click the icon on the control panel- , to do the setting.

Bilingual support

If the TV program supports bilingual, you can click the icon on the control panel - . *Be careful! This function depends on whether the TV program offers bilingual.*

Frame capture

You can click the icon on the control panel -  to capture a picture from the video playback or a live TV program.

Electronic Program Guide

If the TV program supports EPG (Electronic Program Guide), you can click the icon on the control panel - . *Be careful! It depends on whether the TV channel offers this function or not.*

Time Shift

You can use this function when there is interrupt while you are watching TV. Please click the icon on the control panel - , you can reverse the TV to the point you were interrupted.

3.3 The multi-functional remote controller



ICON	Explanation
POWER 	Start / close the TV
SLEEP 	Set the player dormancy start time
TIME-SHIFT 	Start-up time-shift
REC 	Record the TV program
0-9 	Choose the television channel
VOL 	Increase/Decrease the volume level
CH 	Switch up/down the TV channel
SIZE 	Full screen / normal screen switch
RET 	Play the previous television channel
MUTE 	Open or close the sound
FWD 	Fast forward the playback movie
PLAY/PAUSE 	Play/Pause the playback movie
REV 	Fast backward the playback movie

3.4 Functions supported by mouse

Click the right button of the mouse, you will see the following menu pop up.

Function	Function description
Channel up	TV channel up
Channel down	TV channel down
Channel return	Play the previous TV channel
Play	Choose the movie file to play
Stop	Stop the playback movie
Pause	Pause the playback movie
Forward	Fast forward the playback movie
Backward	Fast backward the playback movie
Recording	Record TV programs
Time-shift	Start-up time-shift
Mute	Open or close the sound
Zoom	Full screen / normal screen switch
About	Show the information of the TVGo DVB-T01 player
Exit	Close the TV player

3.5 Hot keys function table

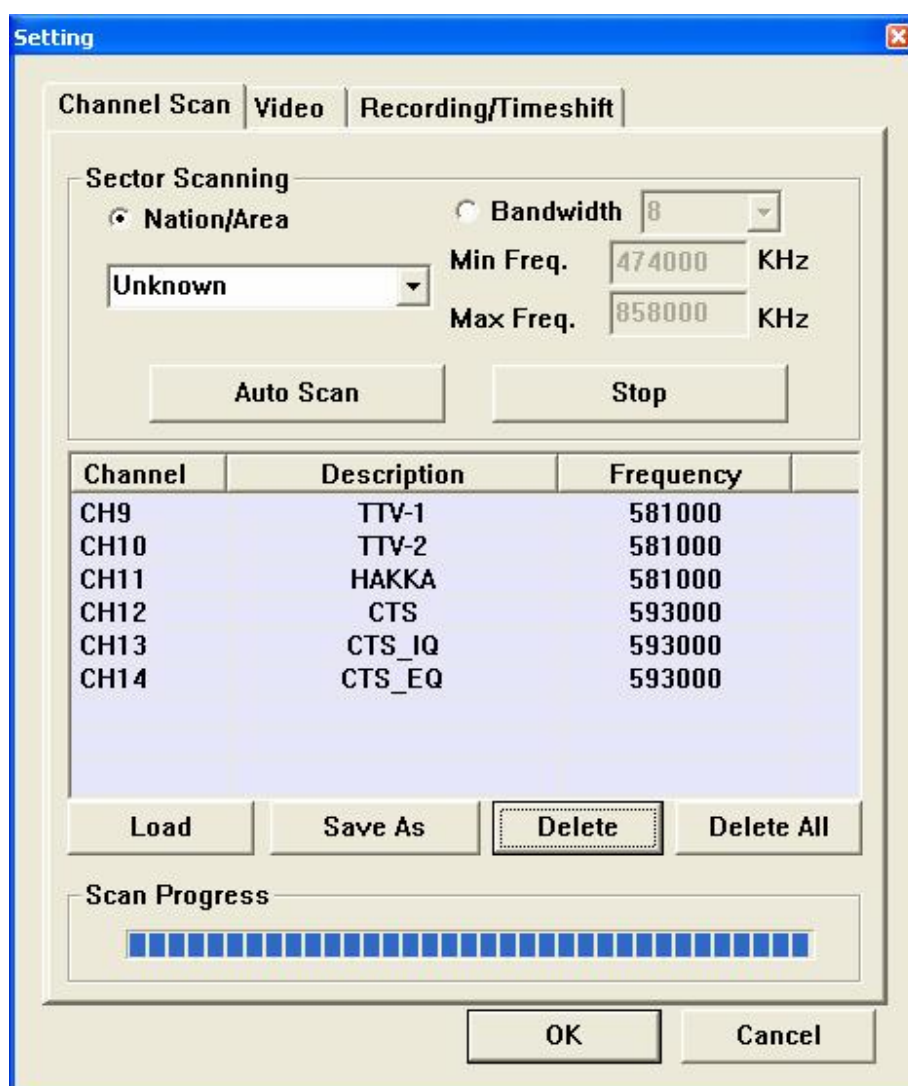
After TVGo DVB-T01 Player is working, you can also use the following keys.

Function	Fast key
Close the TV player	ALT + P
Play recorded movie	ALT + S
Stop movie playing	ALT + S
Fast forward	ALT + F
Fast backward	ALT + B
Pause	ALT + S
Video recording	ALT + R
Stop recording	ALT + S
Capture picture	ALT + C
Time-shift	ALT + T
Full screen	ALT + X
Normal screen	ALT + X
Increase volume level	ALT + V
Decrease volume level	ALT + L
Mute	ALT + M
Up channel	ALT + U
Down channel	ALT + D
Channel selection	XX (X:1234567890)
Previous channel	ALT + J
On-line help	F1

Chapter 4 System Configuration

You can use some of the same settings when watching and recording TV. The sections in this chapter are based on the priority which you need.

Please select and click the pattern -  on the control panel to enter the configuration page.



4.1 Channel scan

You can select and click "**Load**" to load the channel table, or select some specific channels and select "**Delete**" to delete these specific channels, or select and click "**Delete All**" to delete all channels. Then you can select "OK" to store all changes. Or you can select "Cancel" to give up all changes and exit.

Notice:

1. The digital TV has a characteristic called *cliff effect*. If the receiving free-to-air terrestrial signal is bad, you will not see the video image at all. This is unlike analog TV, for analog TV you can still watch TV in unclear video image. If the signal in your area is bad, you need to have an external outdoor antenna. Please see the details on how to fix this issue from Q&A in chapter 6.
2. The free-to-air terrestrial signal coverage status and the TV program broadcasting status can be found at the web site WWW.DVB.ORG

4.1.1 Scan channels by area

Sector Scanning

☒ Nation/Area ☐ Bandwidth 8

Unknown Min Freq. 474000 KHz

Max Freq. 858000 KHz

Auto Scan Stop

Channel	Description	Frequency
CH9	TTV-1	581000
CH10	TTV-2	581000
CH11	HAKKA	581000
CH12	CTS	593000
CH13	CTS_IQ	593000
CH14	CTS_EQ	593000

Load Save As Delete Delete All

Scan Progress

OK Cancel

Step one:

Please click and select "Nation/Area" under the "Sector Scanning" section.

Step two:

Please choose your nation or area.

Step three:

Please click and select the "Auto Scan".

Step four:

After the channel scanning is finished, you can click and select "OK" to save and exit, or select "Save As" to store the new channel table and exit.

Be careful! If you are unable to scan any TV channels using your nation or area, please choose option item "6, 7, 8" under "Bandwidth" field and do the auto scan again.

4.1.2 Scan channels by single frequency

Setting

Channel Scan | Video | Recording/Timeshift

Sector Scanning

☐ Nation/Area ☒ Bandwidth 6

Unknown Min Freq. 581000 KHz

Max Freq. 581000 KHz

Auto Scan Stop

Channel	Description	Frequency
CH1	TTV-1	581000
CH2	TTV-2	581000
CH3	HAKKA	581000

Load Save As Delete Delete All

Scan Progress

OK Cancel

Step one:

Please click and select "**Bandwidth**".

Step two:

You can select the bandwidth you want to scan. (" 6 ", or " 7 ", or " 8 ", or " 7, 8 ", or " 6, 7, 8 ")

Step three:

Please fill in the desired frequency you want to scan under "**Min Freq.**" field.

Step four:

Please fill in desired frequency you want to scan under "**Max Freq.**" field.

Step five:

Please click and select "**Auto Scan**" to begin the channel scanning.

Step six:

After the channel scanning is finished, you can click and select "**OK**" to save and exit, or select "**Save As**" to store the new channel table and exit.

4.1.3 Scan channels by frequency range

Setting

Channel Scan | Video | Recording/Timeshift

Sector Scanning

☐ Nation/Area ☒ Bandwidth 6

Unknown Min Freq. 473000 KHz

Max Freq. 857000 KHz

Auto Scan Stop

Channel	Description	Frequency
CH9	TTV-1	581000
CH10	TTV-2	581000
CH11	HAKKA	581000
CH12	CTS	593000
CH13	CTS_IQ	593000
CH14	CTS_EQ	593000

Load Save As Delete Delete All

Scan Progress

OK Cancel

Step one:

Please click and select "**Bandwidth**".

Step two:

You can select the bandwidth you want to scan. (" 6 ", or " 7 ", or " 8 ", or " 7, 8 ", or " 6, 7, 8 ")

Step three:

Please fill in initial frequency you want to scan under "**Min Freq.**" field.

Step four:

Please fill in ending frequency you want to scan under "**Max Freq.**" field.

Step five:

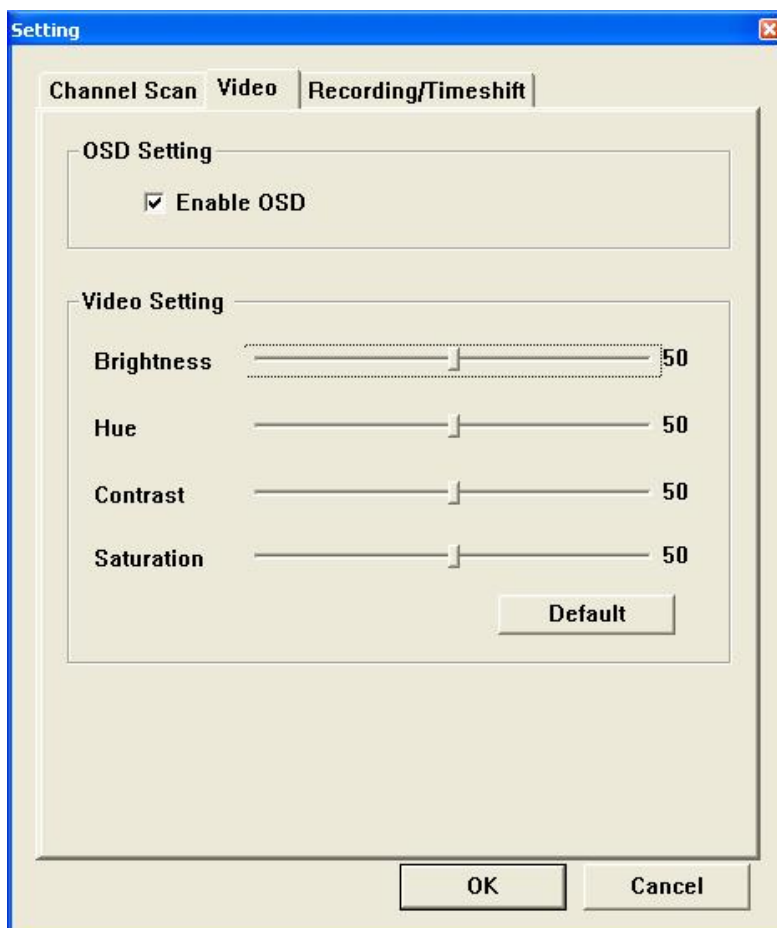
Please click and select "Auto Scan" to begin the channel scanning.

Step six:

After the channel scanning is finished, you can click and select "**OK**" to save and exit, or select "**Save As**" to store the new channel table and exit.

4.2 Adjusting Video

This configuration page has a lot of color parameters, you can adjust in accordance with your favor color style.



Enable OSD: By not canceling this function, the brief description of function you choose will be shown in the TV video window.

Video information attributes

Brightness: You can adjust the luminance of the image according to your taste.

Hue: You can adjust the tone of the image to your liking.

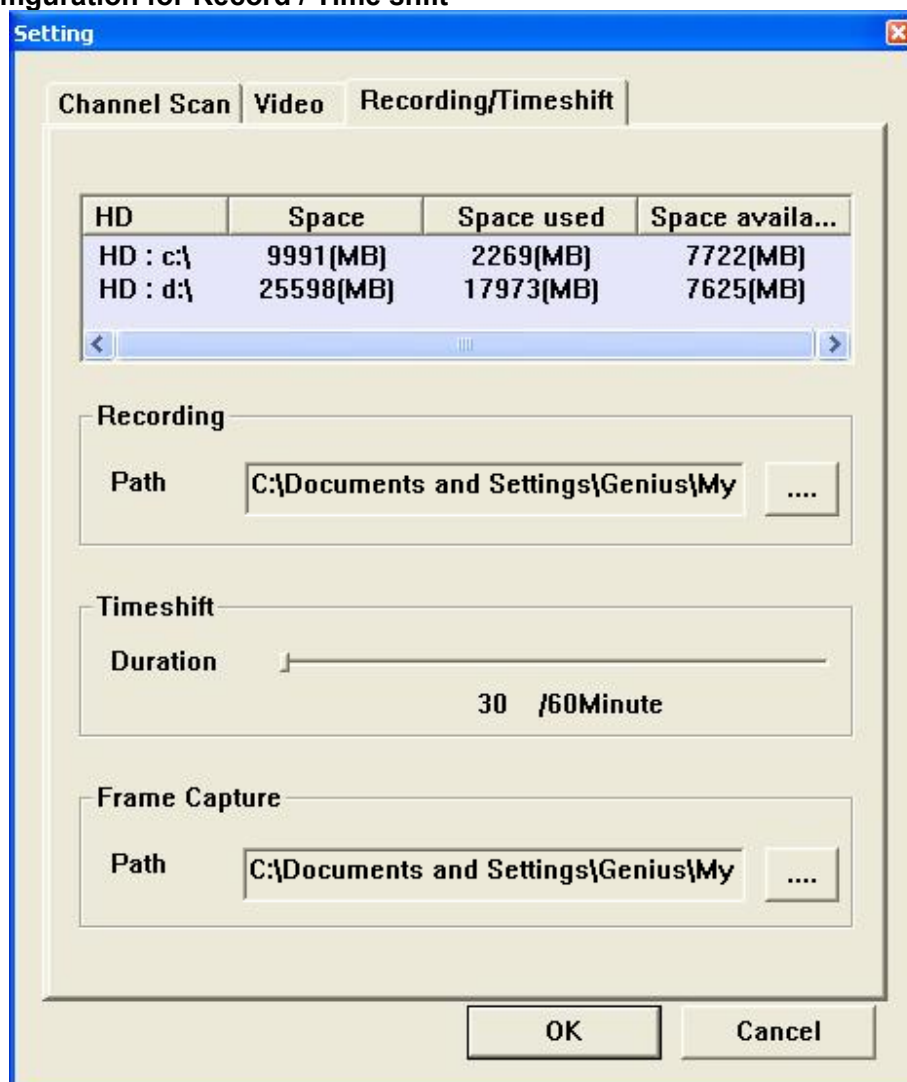
Contrast: You can adjust the contrast of the image.

Saturation: You can adjust the degree of saturation of the image.

Default: You can click this button to restore the default value stored on the system for "Brightness", "Hue", "Contrast" and "Saturation".

If the settings of video information are correct, you can click and select "OK" to save and exit, or select "Cancel" to give up all the change you made and exit.

4.3 Configuration for Record / Time shift



Recording Path

Please choose the data file path for the video recording.

Time shift Duration

The maximum period of "Time shift" you allow. You can choose from 30 minutes to 60 minutes, this field is restricted by the hard disk space on your system. (*Time shift: If you need to leave temporarily for some reason when watching a TV program, you can use this function to store the program at this moment and playback when you return.*)

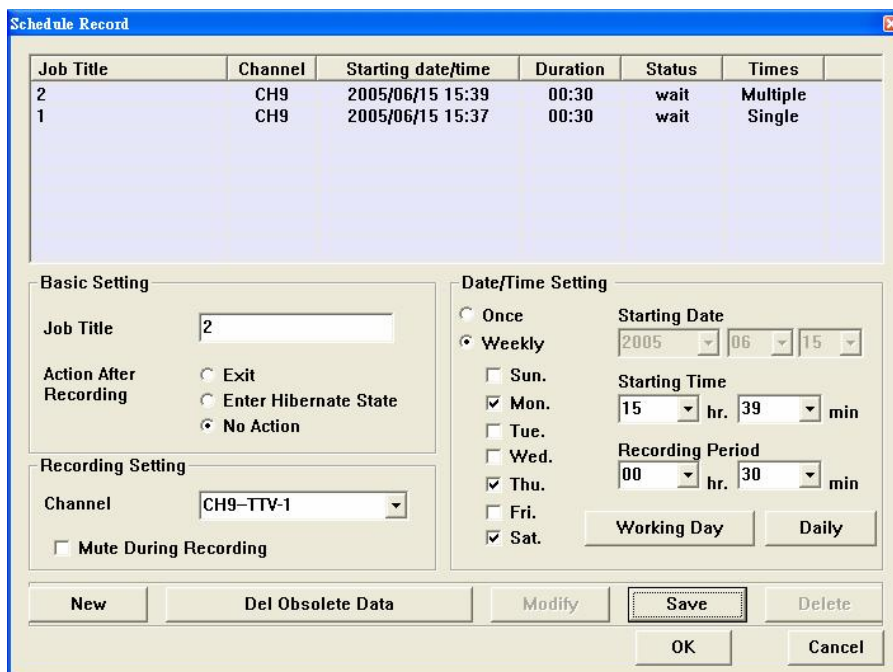
Capture Path

Please choose the data file path for the frame capture.

4.4 Configuration of schedule recording

To configure the schedule recording, please select and click the icon on the control panel

- . The following setting page will pop up.



Job Title	Channel	Starting date/Time	Duration	Status	Times
2	CH9	2005/06/15 15:39	00:30	wait	Multiple
1	CH9	2005/06/15 15:37	00:30	wait	Single

Basic Setting

Job Title:

Action After Recording: ☐ Exit ☐ Enter Hibernate State ☒ No Action

Recording Setting

Channel:

☐ Mute During Recording

Date/Time Setting

☐ Once ☒ Weekly

Starting Date:

Starting Time: hr. min

Recording Period: hr. min

☐ Sun. ☒ Mon. ☐ Tue. ☐ Wed. ☒ Thu. ☐ Fri. ☒ Sat.

Basic Setting

Job Title: You can type in a name for the video recording

Action After / Recording: There are three actions you can select after the schedule recording. Here are the options:

Exit: Click this and the application will exit after schedule recording.

Enter Hibernate State: Select this and the system will go into hibernation after the schedule recording.

No Action: Click this and the application will stay alive after the schedule recording.

Recording Setting

Channel: You can type in the TV channel name for the schedule recording you want.

Be careful! You cannot record the TV programs in different channels at the same time.

Mute Duration Recording: Select this and the system will be mute during schedule recording.

Date / Time Setting

Starting Date: You can choose to make an appointment to make video recording by filling in the starting date here.

(Be careful! You cannot type in a date and time in the past.)

Starting Time: You can choose to make an appointment to make video recording by filling in the starting time here.

Be careful! You must type in a time, which is ahead more than one minute from the present time.

Recording Period: You can type in the recording length here.

Job Title	Channel	Starting date/time	Duration	Status	Times
1	CH9	2005/06/14 16:08	00:30	wait	Single

Basic Setting

Job Title:

Action After Recording:
☐ Exit
☐ Enter Hibernate State
☒ No Action

Recording Setting

Channel:

☐ Mute During Recording

Date/Time Setting

☒ Once
☐ Weekly

Starting Date: 2005 06 14

Starting Time: 16 hr. 08 min

Recording Period: 00 hr. 30 min

☐ Sun.
☐ Mon.
☐ Tue.
☐ Wed.
☐ Thu.
☐ Fri.
☐ Sat.

Once: Select this if you want to establish a video recording reservation just this time.

Weekly: Click on this to establish the video recording reservation the same time every week.

Schedule Record

Job Title	Channel	Starting date/time	Duration	Status	Times
2	CH9	2005/06/15 15:39	00:30	wait	Multiple
1	CH9	2005/06/15 15:37	00:30	wait	Single

Basic Setting

Job Title:

Action After Recording: ☐ Exit ☐ Enter Hibernate State ☒ No Action

Date/Time Setting

☐ Once ☒ Weekly

Starting Date: 2005 / 06 / 15

Starting Time: 15 hr. 39 min

Recording Period: 00 hr. 30 min

☐ Sun. ☒ Mon. ☐ Tue. ☐ Wed. ☒ Thu. ☐ Fri. ☒ Sat.

Working Day | Daily

Channel:

☐ Mute During Recording

Working Day: Click this button to make a video recording reservation from Monday to Friday.

Daily: Click this button to make a video recording reservation each day.

New: Select this button to add a new video recording reservation.

Delete: Select this button to delete a pre-arranged schedule-recording job.

Del Obsolete Data: Click this button to delete all obsolete pre-arranged schedule recording jobs.

Modify: Select this button to modify a pre-arranged schedule-recording job.

Save: Click this button to save the newly added or modified job.

After you click "Add" button, you can set a new schedule-recording job. Once all the data is filled in correctly, you can click the "Save" button. The following window will pop up to show you the status of these jobs.

Job title: Displays the name of the schedule-recording job.

Channel: Displays the TV channel to be recorded in this schedule-recording job.

Starting date/time: Shows the starting date and time of this schedule-recording job.

Duration: The recording period of this schedule-recording job.

Status: The state (wait / finished) of this schedule-recording job.

Times : It displays how many times this schedule-recording job will take (Single/Multiple)

Schedule Record

Job Title	Channel	Starting date/time	Duration	Status	Times
2	CH9	2005/06/15 15:39	00:30	wait	Multiple
1	CH9	2005/06/15 15:37	00:30	wait	Single

Basic Setting

Job Title:

Action After Recording:

- ☐ Exit
- ☐ Enter Hibernate State
- ☒ No Action

Recording Setting

Channel:

☐ Mute During Recording

Date/Time Setting

☐ Once

☒ Weekly

Starting Date:

Starting Time: hr. min

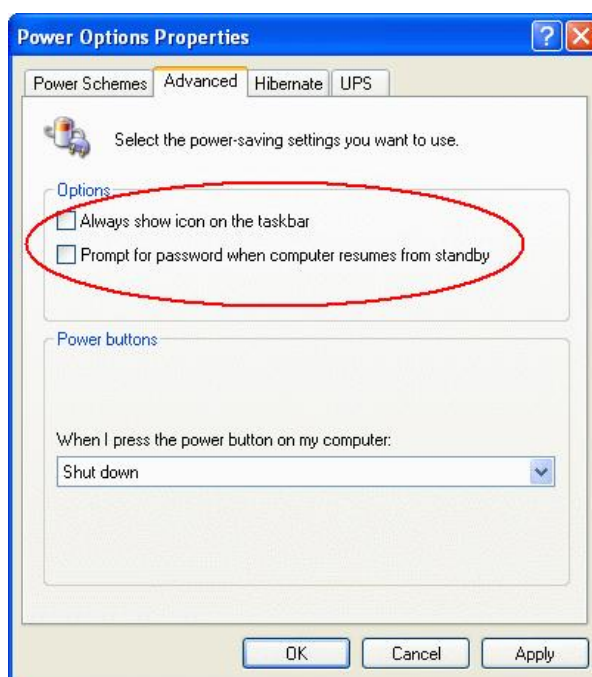
Recording Period: hr. min

☐ Sun.
 ☒ Mon.
 ☐ Tue.
 ☐ Wed.
 ☒ Thu.
 ☐ Fri.
 ☒ Sat.

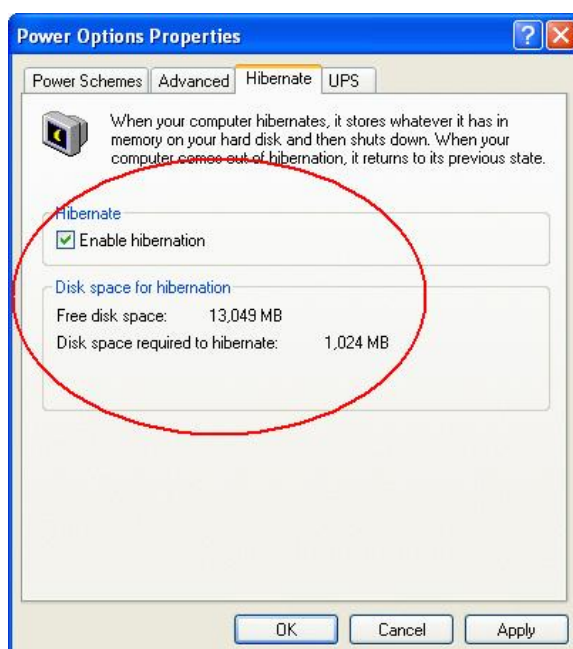
If the settings of all schedule-recording jobs are correct, you can click "**OK**" button to save all the changes and exit. Or click "**Cancel**" button to give up all the changes you made and exit.

Be careful! TVGo DVB-T01 supports the wake up system from hibernation when the schedule recording time is up. The system can start recording the TV program according to the recording time you set. If you want to enable this function, please make sure the following items are done:

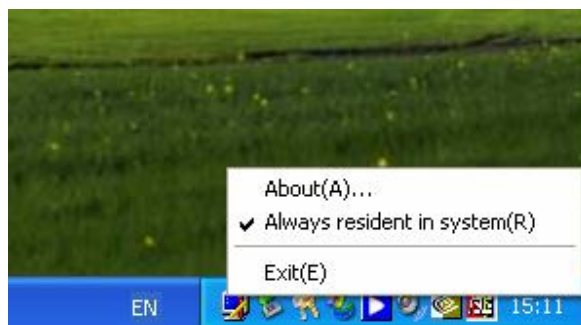
1. Please do not check the box of “Prompt for password when the computer resumes from standby” under the “Advanced” section from “Power Options Properties”



2. Please check the “Enable hibernation” box under the “Hibernate” section from “Power Options Properties”

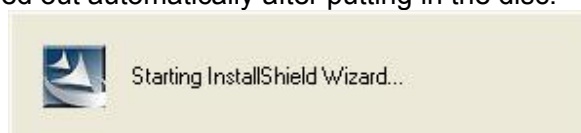


3. Please make sure that the application "TVGo DVB-T01 Monitor" is running now.



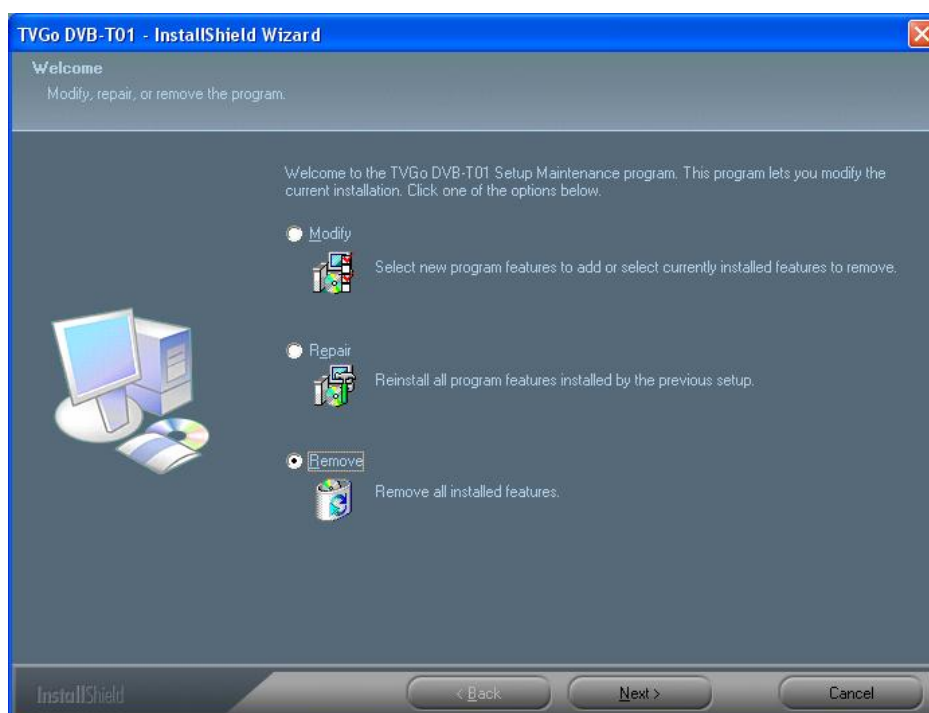
Chapter 5 Uninstall TVGo DVB-T01

1. Please put the software disc of TVGo DVB-T01 into your CD-ROM drive. You will see one window carried out automatically after putting in the disc.



If you do not see this window, please find " setup.exe " from driver.

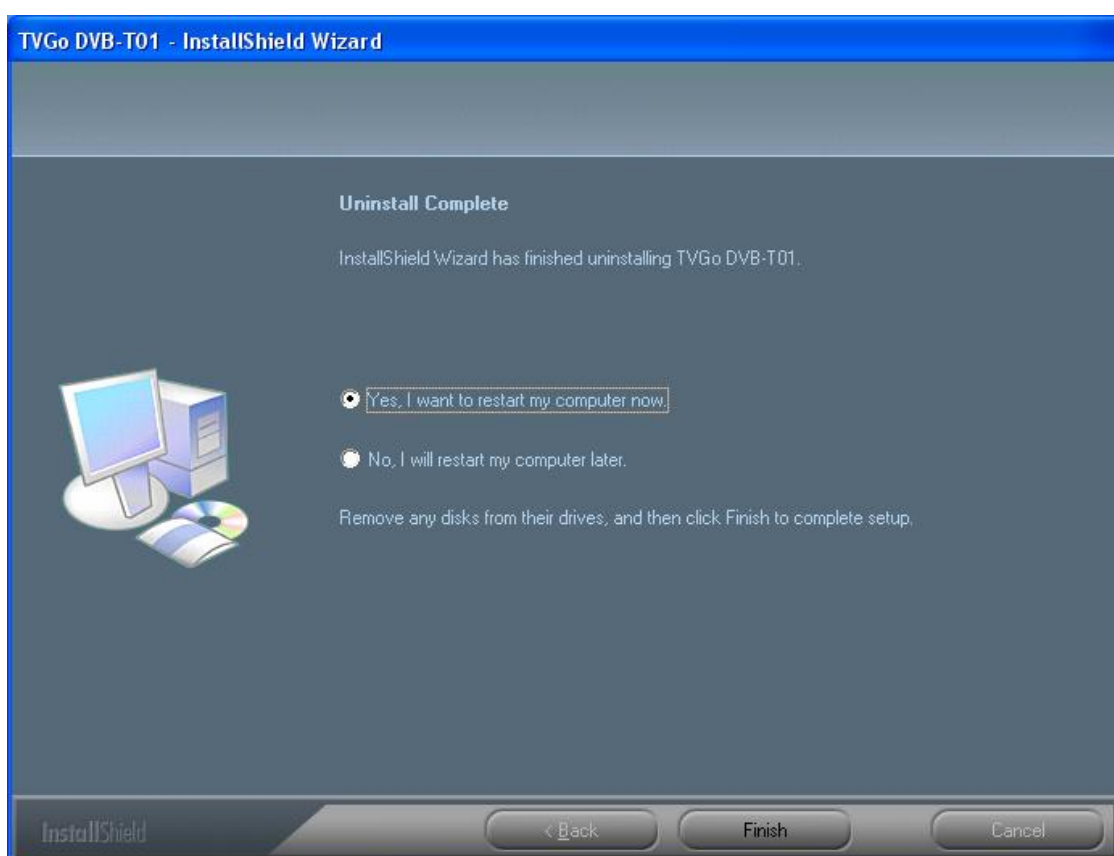
2. Click "Uninstall (R) ", the InstallShield will uninstall TVGo DVB-T01 from your system.



3. Please select and click the button "Yes (Y) ".



4. After the uninstallation is done, please select **"Yes, I want to restart my computer now."**, or **"No, I will restart my computer later."**. Then click "Finish" to complete the uninstallation procedure.



Chapter 6 Q&A

In this chapter, we list some questions that you might have during installation and using TVGo DVB-T01. Please look through these questions before you contact your retailer or us.

1. If you use Windows XP SP1, please go to the following websites to download the patch program for USB.

<http://support.microsoft.com/kb/822603>

2. Windows is unable to find TVGo DVB-T01 hardware.

- a. Please check the connection for TVGo DVB-T01 and USB cable of computer is correct.
- b. Please wait for system to look for the hardware when you plug the TVGo DVB-T01 into your system.
- c. Please restart your computer.
- d. If there is still a problem, manually use the control panel to add/remove TVGo DVB-T01. This way you can make sure the installation is correct.
- e. Remove and insert the USB cable that connects TVGo DVB-T01 and computer again. ***(The duration between the pullout and plug-in of TVGo DVB-T01 should be at least 5 seconds.)***
- f. Please try to use another USB port.

3. Windows is unable to install the driver of TVGo DVB-T01.

- a. While installing the driver, please confirm TVGo DVB-T01 installation disc is put correctly in your disc drive.
- b. While you manually install driver, make sure the path to the driver files is correct.

4. How do I Install the application software?

You have two ways to start the installation procedure.

- a. Install the disc, the system will carry out the installation procedure automatically to install the software and driver.
- b. Install the Setup.exe in the disc manually.

5. There is no channel found after channel scanning.

- a. Make sure that you click the confirm button each time you make the channel scan.
- b. Confirm the correct installation of the TVGo DVB-T01 and system.

- c. Check whether the connection between TVGo DVB-T01 and the antenna is correct.

6. When I watch TV, the screen shows nothing or an error message.

- a. May be because the signal is too weak in intensity, it is unable to display the TV program correctly. Please change the antenna location or use an external antenna.
- b. Check whether the line between TVGo DVB-T01 and the antenna is correct.
- c. Please check VGA card driver is installed correctly.
- d. Please confirm the edition of your operating system is Windows 2000 (SP4) or Window XP (SP1/SP2)
- e. Please confirm that you have already installed Microsoft DirectX 9.0c

7. I can see the image, but cannot hear any sound.

- a. Make sure the hardware and driver of the sound card is correct on your computer.
- b. Please check the volume is not mute.

8. Why can't I start the application?

- a. Your system needs to have the sound card and driver installed.
Please note: Whether you want to have sound or not, your sound card and driver must be installed correctly.
- b. Please check the TV station signal quality and intensity.

9. While I watch the TV program, the sound is normal, but the screen is black, why is this?

- a. Please make sure your display card driver and Microsoft DirectX 9.0c are installed correctly.

10. When I playback video files stored on the notebook computer, why it is always not smooth?

- a. Please check the power management on your notebook computer. This power management function will reduce the operation frequency of CPU, please un-check the power saving box.

11. There is an error message on screen that shows “hardware error! ”

- a. The driver is incorrect in installation, please install the driver again.

12. When watching TV, the video is not smooth when I am using the remote controller.

- a. Because USB has bandwidth restriction, when you are broadcasting the TV program and using remote controller at the same time, the data transfer will be influenced and interrupted.

13. How can I find out the terrestrial TV signal coverage in the area I live?

- a. If you want to know whether you can watch free-to-air terrestrial digital TV in your location, you can go to the web site below to get the information.

<http://www.dvo.org.tw/e-wave/cts/search.asp>

(For other area than Taiwan, please check the web site accordingly.)

14. Why the free-to-air terrestrial TV signal bad? How to solve it?

- a. There are a lot of reasons for this issue. For example, there is no broadcasting station in your residence area, there is a building or mountain that blocks the signal etc.. Check the web site of Digital Information Industry of the Economic department first. You can watch the information of the free-to-air terrestrial TV station in your location. Second, if the signal is blocked by a building or mountain, you need to consider using an external outdoor antenna for the antenna enclosed is a small-scale indoor reception antenna. It is an antenna considered by general environment. For special environment, and the fact that the signal is bad, you might need to use an external outdoor antenna. So we advise you to purchase an outdoor UHF (Ultra High Frequency) antenna so you can get better quality to receive the digital TV program.