

TwinHan DTV

V2.62
User's Manual

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CHAPTER 1

TwinhanDTV Product Introduction

This chapter provides a brief introduction of hardware/software of TwinhanDTV products and includes information to help you set up the system.

Outline:

- Introduction
- System Requirements
- Features

Chapter 1 TwinhanDTV Product Introduction

1.1 Introduction

TwinhanDTV series allows you to watch digital TV & Radio programs via PCI or USB interface. With TwinhanDTV products, users are able to watch, record, and play back high quality digital TV program on their PC. Please read the instructions carefully before you begin the installation.

1.2 System Recommended

- IBM or IBM compatible computer
- CPU: 2 GHz or above
- Memory: 512MB or above
- VGA card with at least 32 MB Memory with **DxVA support**
- OS: Windows XP
- Sound card
- Microsoft DirectX 9.0C or above
- Digital Satellite Dish & LNB for TwinHan DVB-S products
- VHF/UHF antenna for TwinHan DVB-T/ATSC products
- One free USB 2.0 port for TwinHan USB products

1.3 Features

- Digital TV and Radio Program Receiving
- Real time Digital Video Recording
- Schedule Recording and Time-shifting
- Wake up Recording
- EPG and Teletext
- Multi-Channel Preview (FTA Channels Only)
- MPEG-II Software Decoding
- Still Frames Capture
- Favorite List
- Subtitle over Display
- Parent control
- Software Upgradeable
- Remote control supported
- PCMCIA Commotion Interface for CI product.

(Note: Some features are only provided by content provider, be sure to check if your content provider supports them or not.)

CHAPTER 2

Installation

This chapter shows you how to easily install the hardware and software of TwinhanDTV products.

Sections include :

- Hardware installation
- Software installation

Chapter 2 Installation

2.1 Hardware Installation

2.1.1 PCI cards

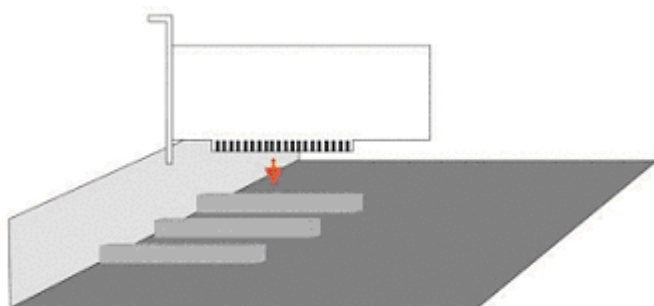
2.1.2 USB device

2.1.1 TwinhanDTV PCI cards

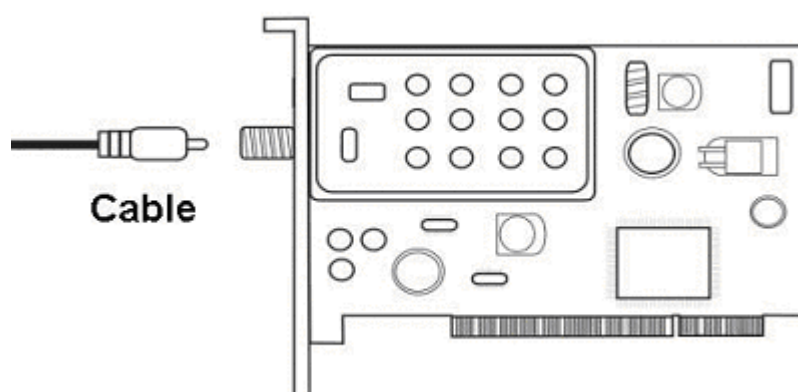
Before You Begin

- Make sure your computer system is qualified for the system requirements
- Make sure the power of the computer and peripheral equipments are off
- Please note that the TwinhanDTV PCI card will not work when there is another TV tuner card with Conexant BT878 IC onboard.

Step1: Install TwinhanDTV tuner card into your PC.



Step2: Connect the antenna cable.



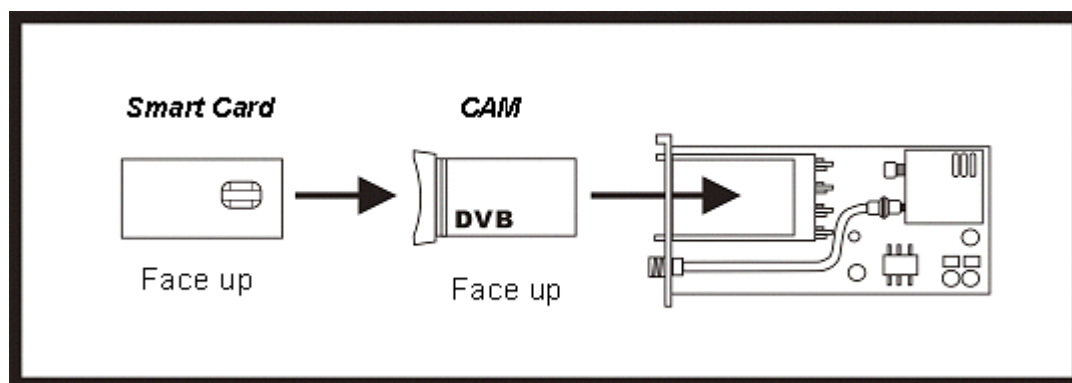
Step3: Insert remote control receiver

Receiver with USB connector: Please connect the remote control receiver to a USB port of your PC, and place the other end at a proper location where remote control signal can be well received.

Receiver with din connector: Please connect the remote control receiver to the connector on the tuner card, and place it at a proper location where remote control signal can be well received.

Step4: Insert CAM and Smart card (For TwinhanDTV Sat-CI/Cab-CI/Ter-CI)

- Insert Conditional Access Module fully into TwinhanDTV Tuner Card PCMCIA slot.
- Insert smart card into Conditional Access Module (CAM).



Note: You can purchase Conditional Access Module and smart card from your service provider or CAM retailer.

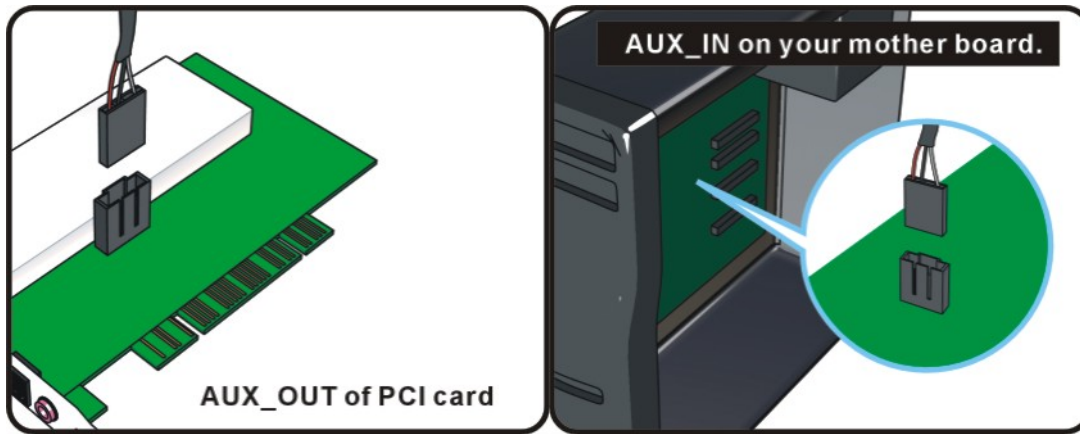
Note: Some CI models have different CAM compatibility; please check color box or website www.twinhan.com for more information.

Step5: Connect Audio Line (For Hybrid ATSC or DVB-T)

You may have two ways to connect audio line, please choose one you prefer)

Connect Internal Audio Line

Please connect Internal Audio Line form AUX_OUT of PCI card to AUX_IN on your mother board.



Connect External Audio line

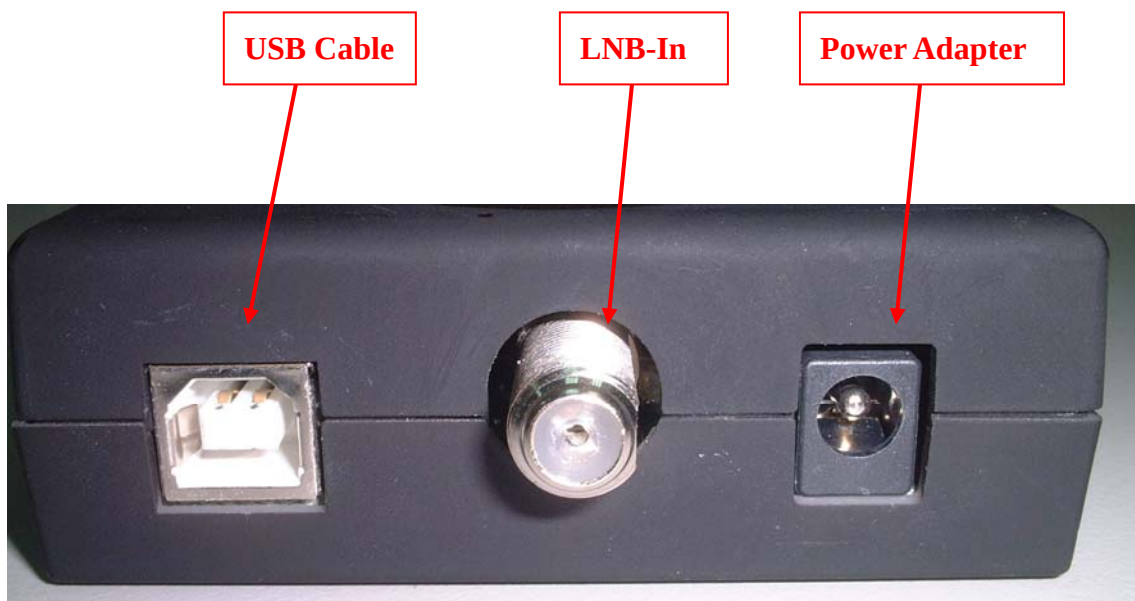
Please connect External Audio Line from Audio out (blue port) of PCI card to Audio in (red port) of your sound card (or mother board)

2.1.2 TwinhanDTV USB device

Step1: Connect the antenna cable to the USB box

Step2: Connect to a USB port of your PC or desktop

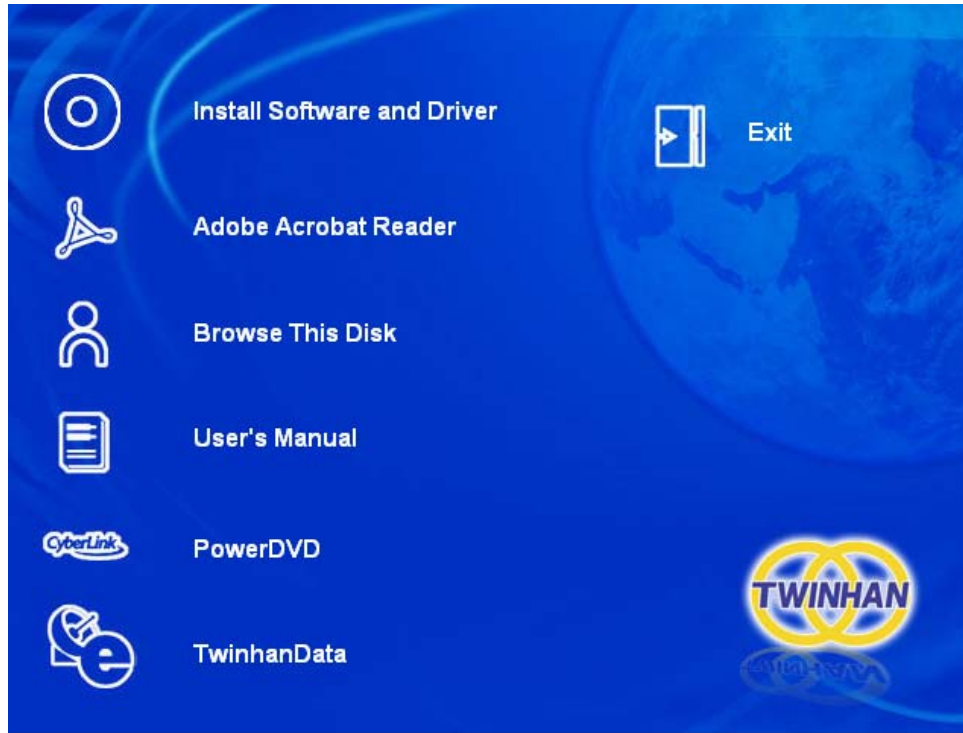
Step3: Connect the power adaptor. (Star Box only)



2.2 Software Installation

Step1: Activate TwinhanDTV CD-ROM

Insert the TwinhanDTV driver CD into your CD-ROM drive, and click on “Install Software and Driver”.



Step2: Follow the InstallShield Wizard

Click on “next” and the Wizard will lead you to the finish the process.

STEP3: Installation

Give a destination and it starts to install TwinhanDTV You will see TwinhanDTV icon on your desktop.



CHAPTER 3

Channel Scanning

This chapter describes how to configure all the parameters of the system in detail, and lists the guidelines when setting up the Digital TV system.

Sections include :

- DVB-S setting
- DVB-T setting
- DVB-C setting
- Analog setting
- ATSC setting

Chapter 3 Channel Scanning

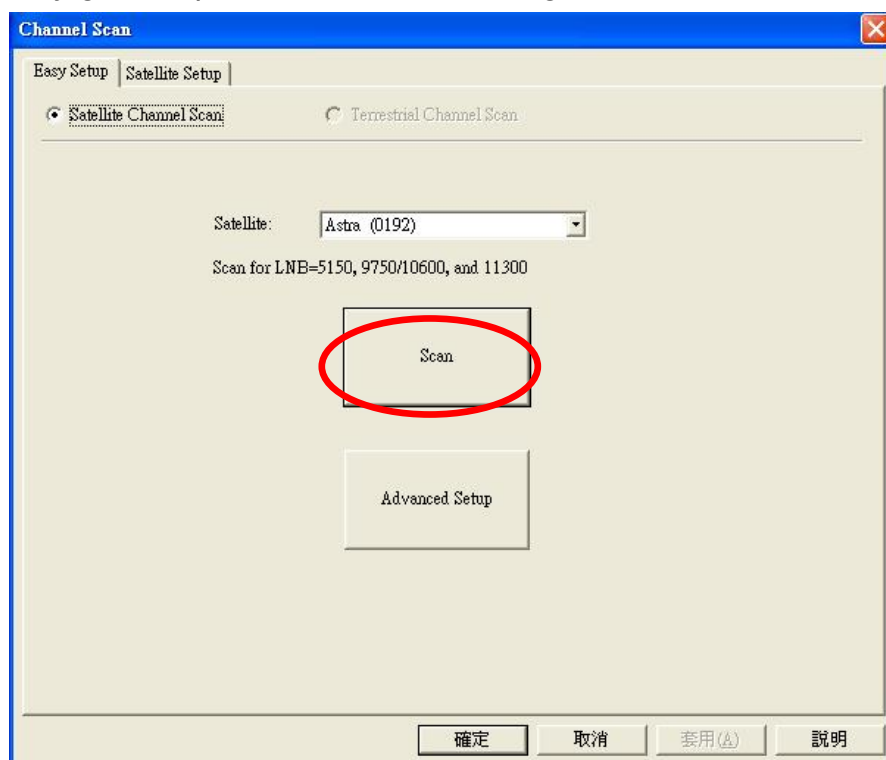
3.1 Satellite

Step3.1.1

Double click on Twinhan DTV icon, you will see Scanning Wizard. If you only have one LNB without DiSEqC/USALS, please click on “scan” to find channels; if you have other equipments, please click on “Advanced setup”.

“Easy Setup”

Choose the satellite that you like to target and click on the “Scan” button. You may go to <http://www.satcodx.com/eng/> for more satellite information.

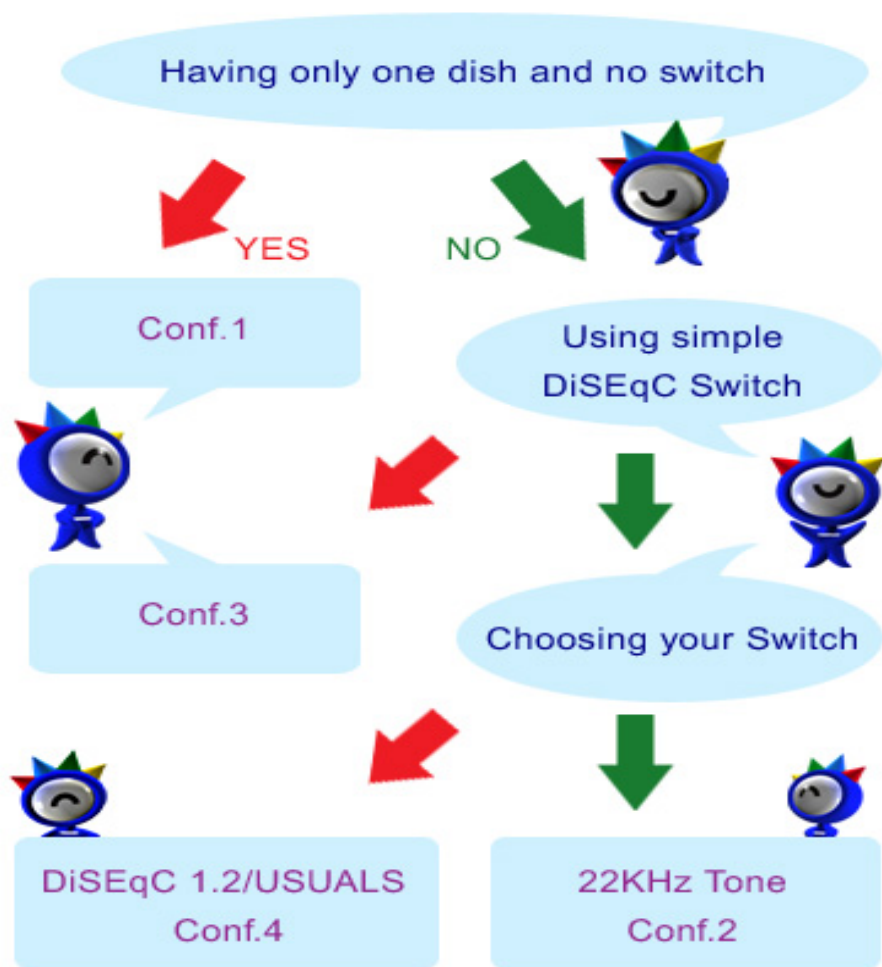


“Advanced Setup” (satellite setup)

In “Satellite Setup” page, there are five options for you to set up your satellite: a. none b. 22 KHz, c. Simple DiSEqC, d. DiSEqC 1.0, and e. DiSEqC 1.2/USALS. Please choose on your situation.

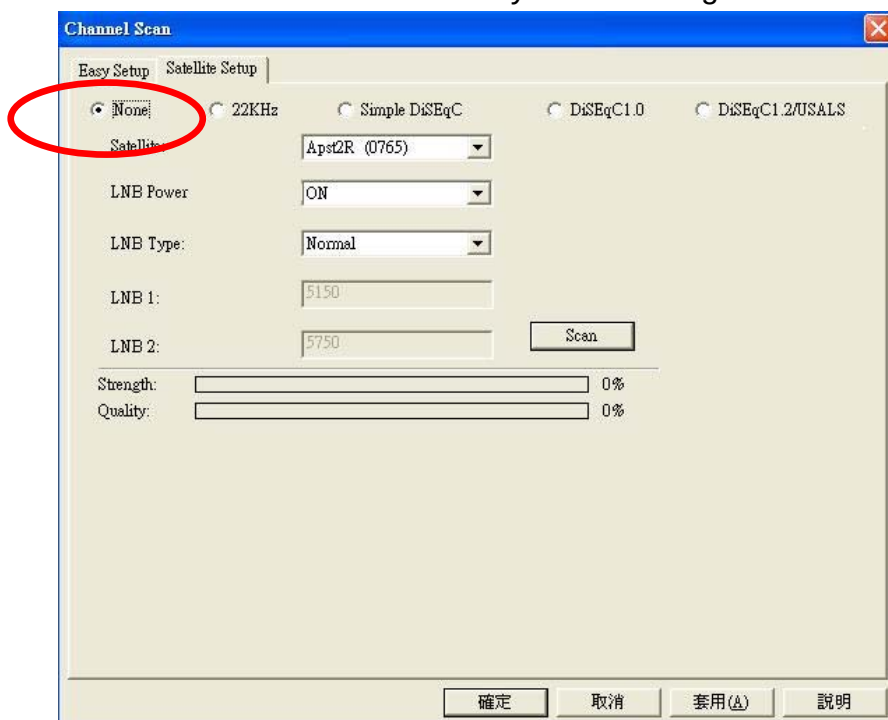
Note 1: Remember to click on “Apply” every time after you change the satellite setting.

Note2: You must choose your LNB Type in any situations. There are three types of LNB: **a. Normal** **b. Universal** **c. Custom.** If you choose “Custom”, you need to fill in the parameters for LNB 1 and LNB 2.



Configuration 1: None

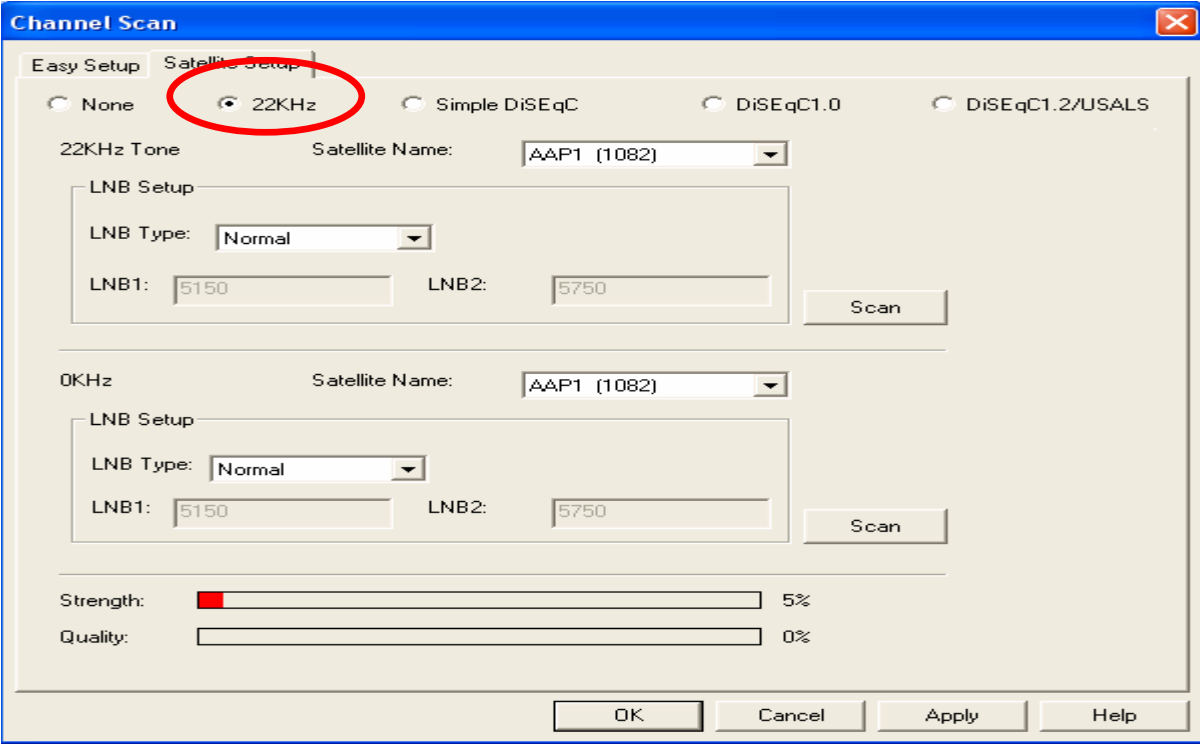
If you only have one dish and LNB without motor, you may choose this option. Please choose the satellite that you like to target and click on “Scan”.



Configuration 2: 22 KHz

Please choose a satellite you like to scan and the kind of LNB you want to use.

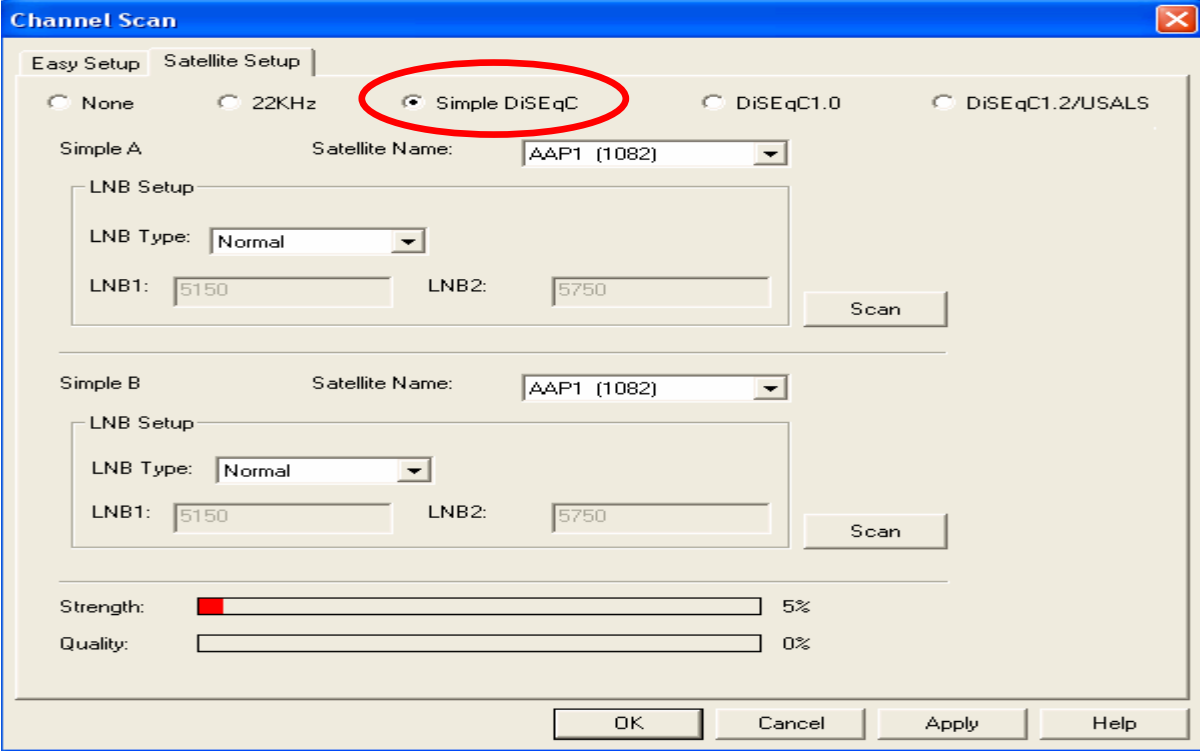
Please click on “Scan” to start scanning satellite. Please repeat the step above for 0 KHz if necessary.



The Channel Scan dialog box is shown with the "Satellite Setup" tab selected. The "22KHz" radio button is selected and circled in red. The "Satellite Name" dropdown is set to "AAP1 (1082)". The "LNB Setup" section shows "LNB Type" as "Normal", "LNB1" as "5150", and "LNB2" as "5750". The "Scan" button is visible. Below this, the "0KHz" section is also visible with the same "Satellite Name" and "LNB Setup" options. At the bottom, there are "Strength" and "Quality" progress bars, both at 0%, and "OK", "Cancel", "Apply", and "Help" buttons.

Configuration 3: Simple DiSEqC

Please choose a satellite you like to scan and your LNB type. Click on Scan button for start scanning satellite. Please repeat the step above for 0 KHz if you need.



The Channel Scan dialog box is shown with the "Satellite Setup" tab selected. The "Simple DiSEqC" radio button is selected and circled in red. The "Satellite Name" dropdown is set to "AAP1 (1082)". The "LNB Setup" section shows "LNB Type" as "Normal", "LNB1" as "5150", and "LNB2" as "5750". The "Scan" button is visible. Below this, the "Simple B" section is also visible with the same "Satellite Name" and "LNB Setup" options. At the bottom, there are "Strength" and "Quality" progress bars, both at 0%, and "OK", "Cancel", "Apply", and "Help" buttons.

DiSEqC 1.0

Please choose a satellite you like to scan and your LNB type. Please click on Scan button for start scanning satellite. Repeat the step above for DiSEqC B, DiSEqC C, and DiSEqC D if needed. Please click on “Scan” for scanning satellite.

The screenshot shows the 'Channel Scan' window with the 'Satellite Setup' tab selected. The 'DiSEqC 1.0' radio button is circled in red. Below it, there are four sections for DiSEqC A, B, C, and D. Each section has a 'Satellite Name' dropdown menu set to 'AAP1 (1082)', an 'LNB Type' dropdown menu set to 'Normal', and two input fields for 'LNB1' and 'LNB2' both set to '5150'. A 'Scan' button is located to the right of each section. At the bottom, there are 'OK', 'Cancel', 'Apply', and 'Help' buttons. The 'Strength' and 'Quality' progress bars are at the bottom left, showing 5% and 0% respectively.

Configuration 4: DiSEqC 1.2/USALS

Please choose the satellites and select power "ON" for LNB power option. If you have USALS motor, please input the longitude and latitude of your location. You may use “Drive East” or Drive West” function to move your dish to the satellite you want.

The screenshot shows the 'Channel Scan' window with the 'Satellite Setup' tab selected. The 'DiSEqC 1.2/USALS' radio button is circled in red. The window is divided into two main sections: 'Static' and 'Motor'. The 'Static' section has five satellite slots (Sat1 to Sat5), each with a dropdown menu set to 'AAP1 (1082)', an 'LNB Type' dropdown menu set to 'Normal', and two input fields for 'LNB1' and 'LNB2' both set to '5150'. The 'Motor' section has input fields for 'Longitude' (11.9), 'Latitude' (45.0), and 'Degree' (-8.1), and a 'Goto Sat' button. There are also buttons for 'Drive East', 'Drive West', 'Set East Limit', 'Set West Limit', 'Cancel Limit', and 'Goto Zero'. A 'Scan' button is located at the bottom right. At the bottom, there are 'OK', 'Cancel', 'Apply', and 'Help' buttons. The 'Strength' and 'Quality' progress bars are at the bottom left, showing 5% and 0% respectively.

Notes for USALS motor :

You could get more information about the longitude and latitude of your location from this website – <http://www.bcca.org/misc/qiblih/latlong.html>

Motor :

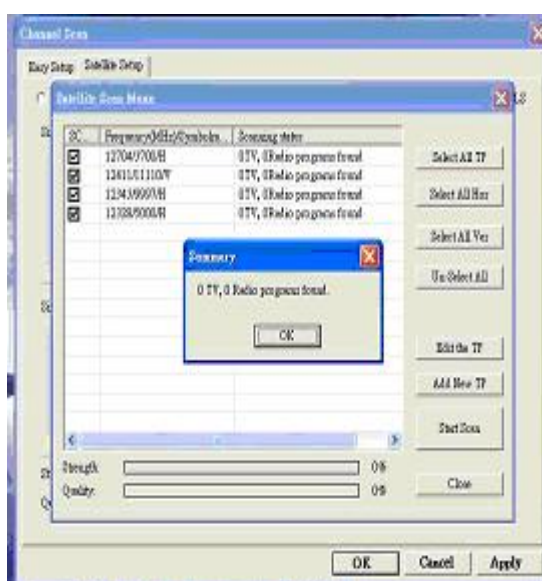
The Functions of Motor Table

Drive East	Turn motor to east
Drive West	Turn motor to west
Set East limit	Set the limit for East angle turning
Set West limit	Set the limit for West angle turning
Cancel limit	Cancel the default limit
Go to Sat.	Start turning motor to the satellite you have selected (for USALS Motor Only)
Go to Zero	return motor to original (zero) point

Note: If you like to set up Sat2, Sat3, Sat4, and Sat5, please repeat the above steps.

Step3.1.2

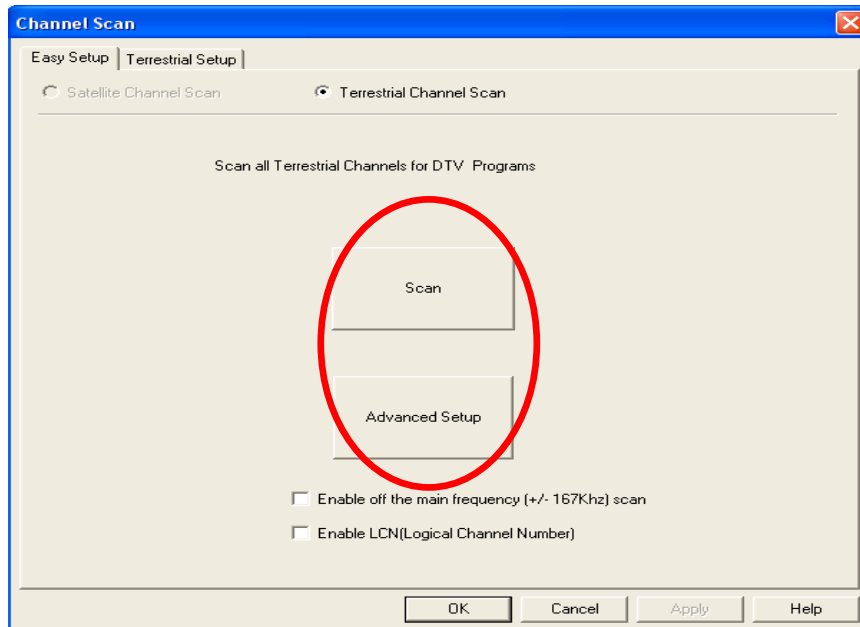
When scanning is completed, you will see the summary window as shown below. It contains the TV and Radio channels that had been scanned. Click on “OK” to finish this configuration.



3.2 Terrestrial

Step 3.2.1

Double click on TwinHan DTV icon, you will see Scan Wizard. If you do not have any information, you may click on “scan” to find channels. If you have more information and would like to shorten the scanning time, you may choose “Terrestrial setup”.

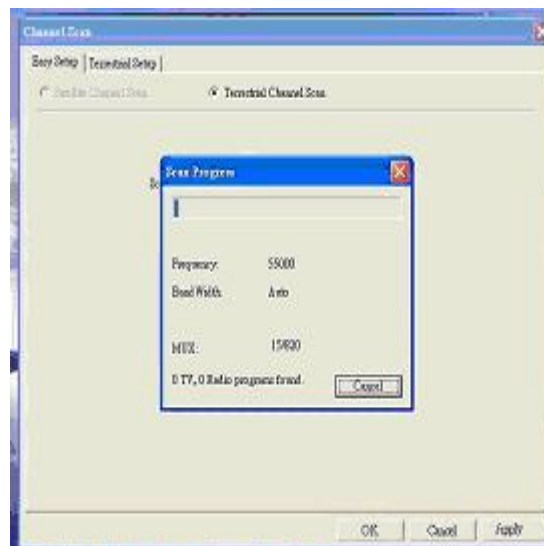


Note1:“enable off-the-main-frequency (+/-167 kHz) scan”—let user to scan related frequency. It will enlarge the frequency range and avoid losing channels.

Note2: “enable LCN (logic channel number)”—enable user to rank channel as local channel sequence.

“Easy Setup”

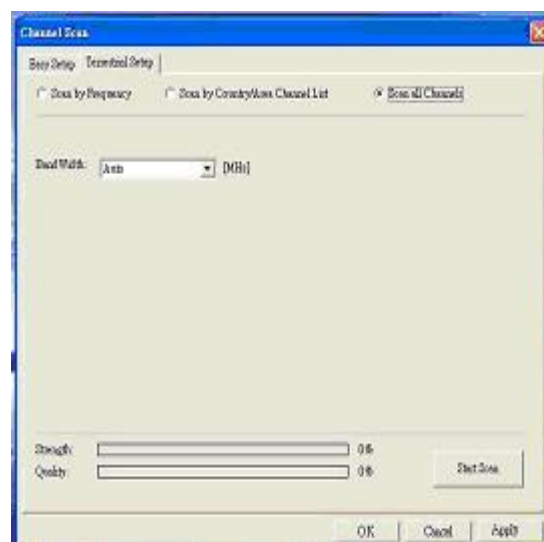
After you click on “Scan” button, you can see this configuration page shown below. This function will help you complete channel scanning. Note that this will take a little longer than “Terrestrial setup” setting.



“Terrestrial setup”

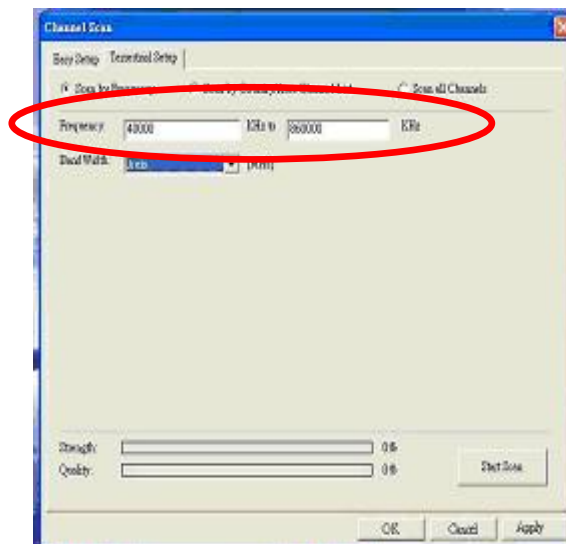
There are three kinds of advanced scan:

Scan by Frequency, Scan by Country /Area, and Scan All Channels



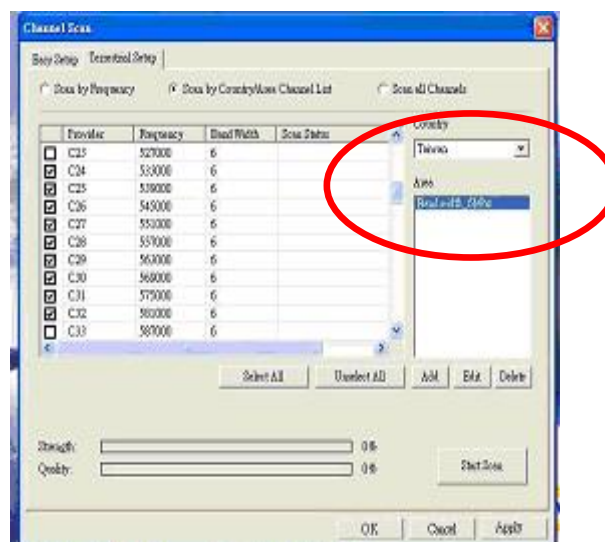
Scan by Frequency

If you already know the DTV frequency range of your location, please select “Scan by Frequency”. After you choose “Scan by Frequency”, this configuration window will show up. Please fill in the correct frequency and bandwidth and click on “Start Scan” button.



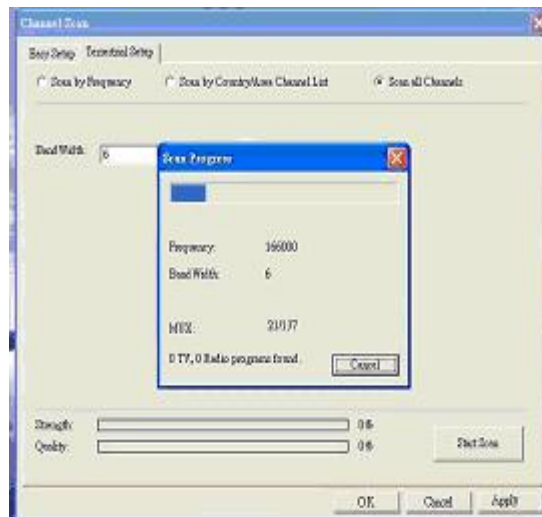
.Scan by Country /Area

You can choose the area you are located and the bandwidth your country adopts to scan channel.



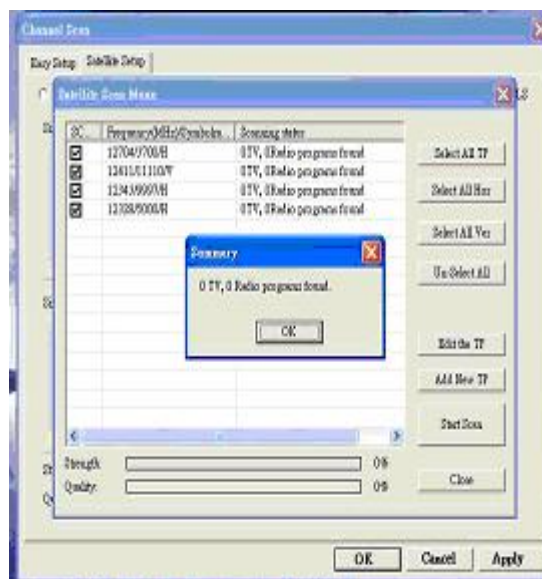
Scan all Channels

If you know the specific frequency in your country, please mark those channels that you like to scan. After you mark all channels that you like to scan, click on “Start Scan” to scan.



Step3.2.3

When channel scanning is finished, this summary window will show up telling you how many TV and Radio programs had been scanned. Please click on "OK" on summary dialog box and click on "OK" to close this window.



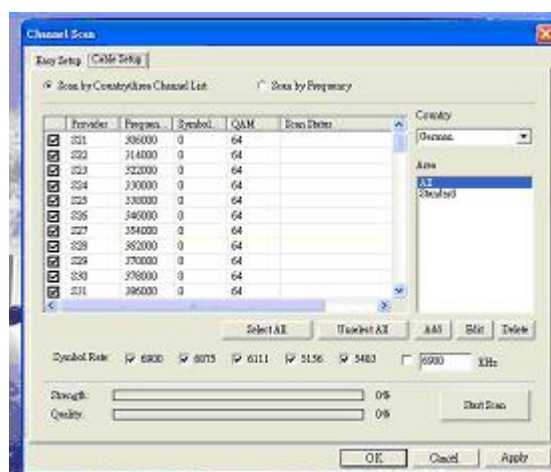
3.3 Cable

Double click on TwinhanDTV icon, you will see Scanning Wizard. You can choose "Scan by Area" and "Scan by Frequency".

Step3.3.1

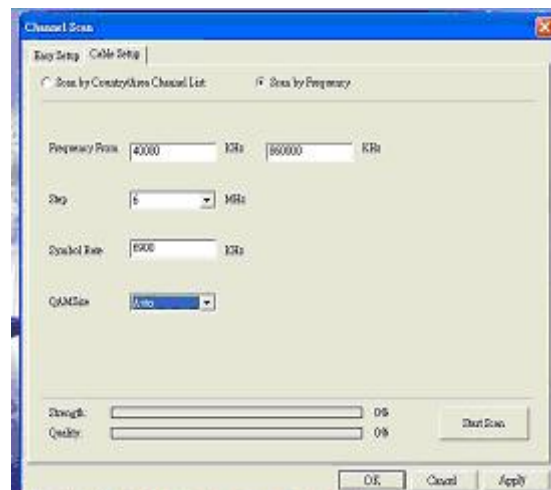
Scan by Country/Area Channel List

Please choose the country and the area for channel scanning. There are six different symbol rates, please choose your symbol rate or fill in the number of the symbol rate (we suggest you to select all). After you finish all settings please click on "Start Scan".



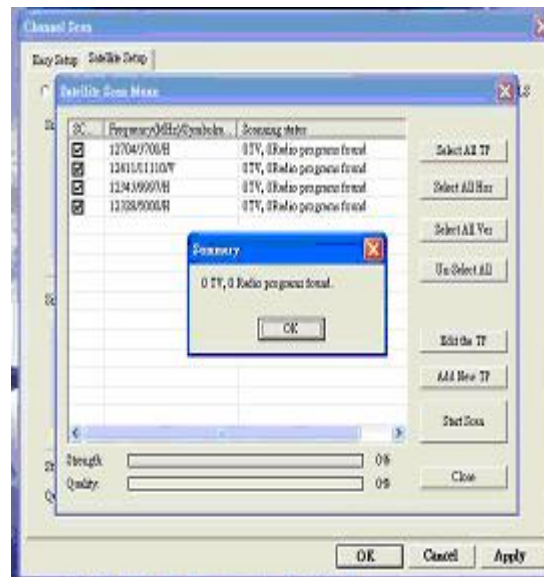
Scan by Frequency

Click on "Scan by Frequency" and you can see this setting page for configuration. Please fill in all information for channel scanning. After you finish filling the information, click on "Start Scan".



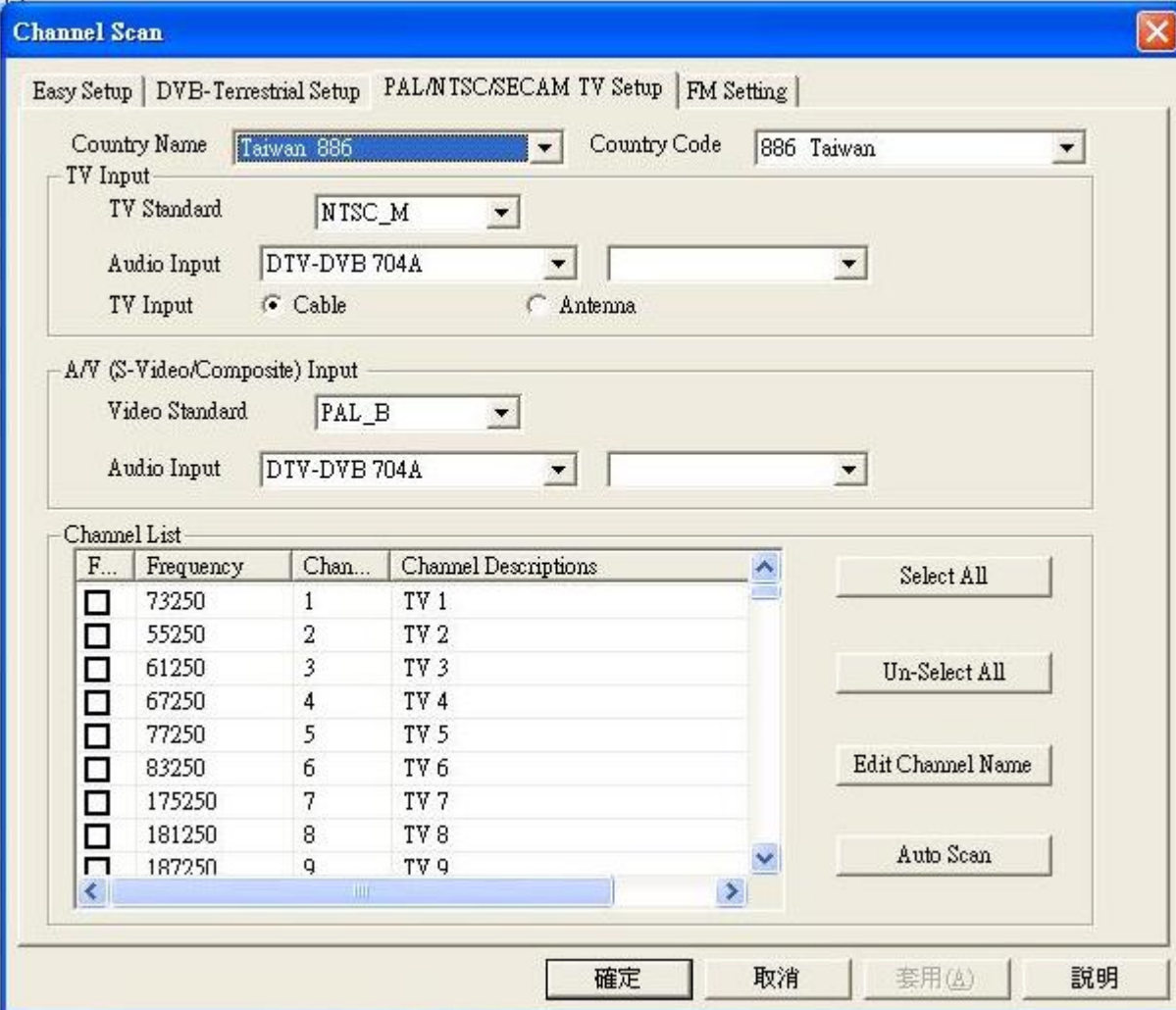
Step3.3.2

You can see the summary message window when the scanning completed. Please click on "OK" on this message window to close 'Channel Scan' configuration.



3.4 Analog

Please select Area/TV standard and TV input, and then click on “Auto Scan”.



The Channel Scan dialog box is shown with the following settings:

- Country Name: Taiwan 886
- Country Code: 886 Taiwan
- TV Input: TV Standard is NTSC_M, Audio Input is DTV-DVB 704A, and TV Input is Cable.
- A/V (S-Video/Composite) Input: Video Standard is PAL_B, and Audio Input is DTV-DVB 704A.

The Channel List table is as follows:

F...	Frequency	Chan...	Channel Descriptions
☐	73250	1	TV 1
☐	55250	2	TV 2
☐	61250	3	TV 3
☐	67250	4	TV 4
☐	77250	5	TV 5
☐	83250	6	TV 6
☐	175250	7	TV 7
☐	181250	8	TV 8
☐	187250	9	TV 9

Buttons on the right: Select All, Un-Select All, Edit Channel Name, Auto Scan.

Buttons at the bottom: 確定, 取消, 套用(A), 說明.

3.5 ATSC

Please click “Start Scan” button for channel scanning

The Channel Scan dialog box is shown with the ATSC-Terrestrial Setup tab selected. It features three radio buttons for scanning: "Scan by Country/Area Channel List" (selected), "Scan by Frequency", and "Scan all Channels". A table lists 12 providers with their frequencies and bandwidths. To the right, there are dropdown menus for "Country" (USA 1) and "Country Code" (1 USA). Below these is a checkbox for "Enable off-center frequency (+/- 167Khz) scan". At the bottom, there are "Strength" and "Quality" progress bars, both at 0%, and a "Start Scan" button. The dialog also includes "Select All", "Un-Select All", "OK", "Cancel", "Apply", and "Help" buttons.

	Provider	Frequency	Bandwidth	Scan Status
☒	Provider 1	55250	6	
☒	Provider 2	61250	6	
☒	Provider 3	67250	6	
☒	Provider 4	77250	6	
☒	Provider 5	83250	6	
☒	Provider 6	175250	6	
☒	Provider 7	181250	6	
☒	Provider 8	187250	6	
☒	Provider 9	193250	6	
☒	Provider 10	199250	6	
☒	Provider 11	205250	6	
☒	Provider 12	211250	6	

Country: USA 1

Country Code: 1 USA

☐ Enable off-center frequency (+/- 167Khz) scan

Strength: 0%

Quality: 0%

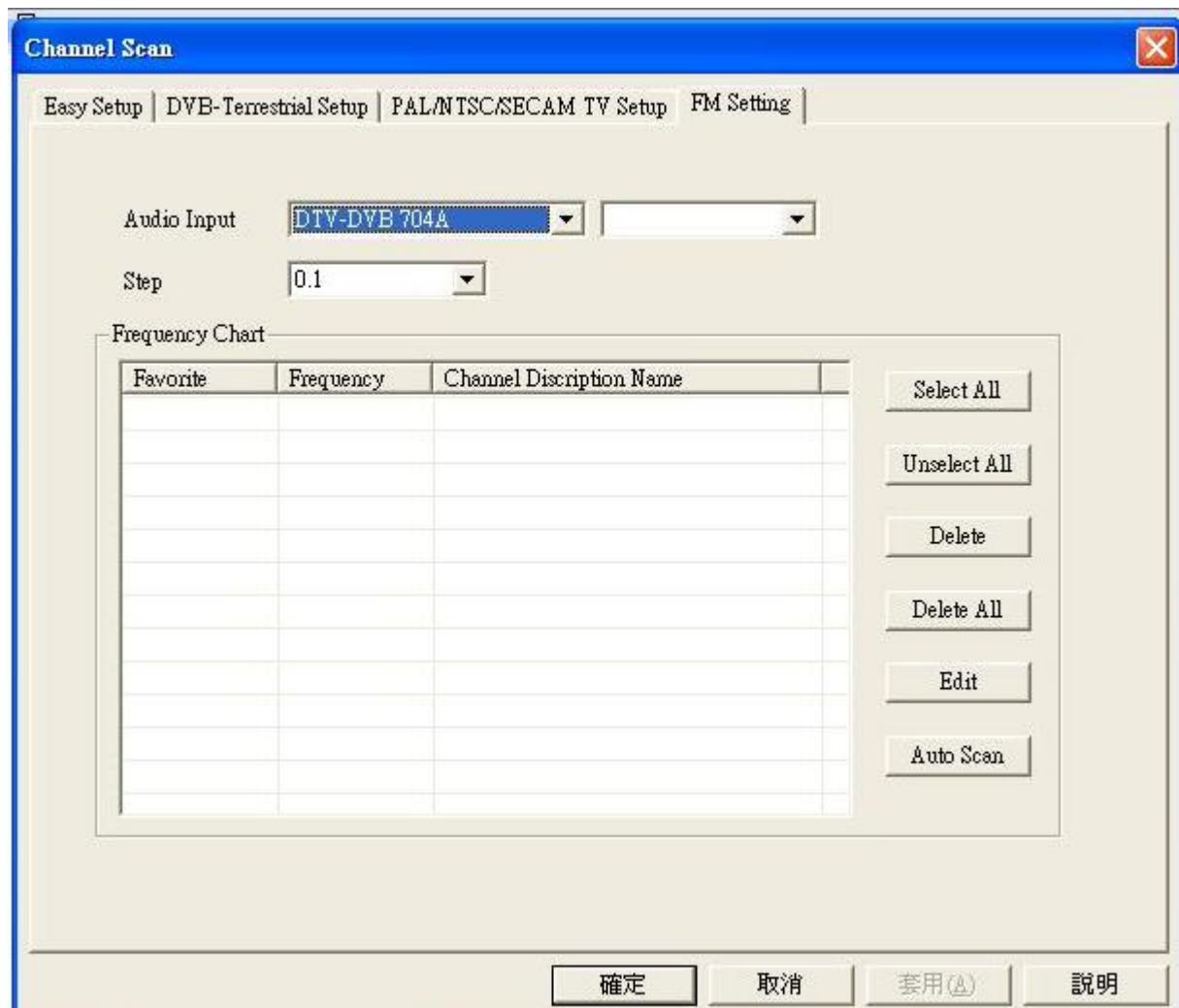
Start Scan

OK Cancel Apply Help

3.6 FM

FM setting

- Audio Input: Please select audio input for your device.
- Tuning step: You may change Tuning scale as 0.1 or 0.05 to find FM channels
- Reception sensitivity: You may change sensitivity as High, Medium to find good quality FM channels only, or Low to receive all FM channels disregarding the quality.



CHAPTER 4

TwinhanDTV Application Programs

Powerful TwinhanDTV Application Program can let you watch DTV on your PC. Please read this chapter to learn more about TwinhanDTV application programs.

Sections include:

- Control Panel
- Features
- Right-Click Menu
- Keyboard Shortcuts

Chapter 4 TwinhanDTV Application Programs

4.1 Control Panel

Main control bar and control panel icons:



Icon	Function	Icon	Function
	Exit TwinhanDTV application.		Open Extended Panel
	Open "Favorite List"		Language switch
	Capture still image.		Subtitle
	Channel up		Stop / Play Rewind / Pause / Fast Forward Time Shifting / Record
	Channel down		
	On Line Help		Control Speaker on, off, LL, RR
	Volume		Mute
	Signal strength		Signal quality

Other Information:

Clock (Set by host computer's time clock)

Channel and program time

Stop/Play/Time Shifting

Extended control panel

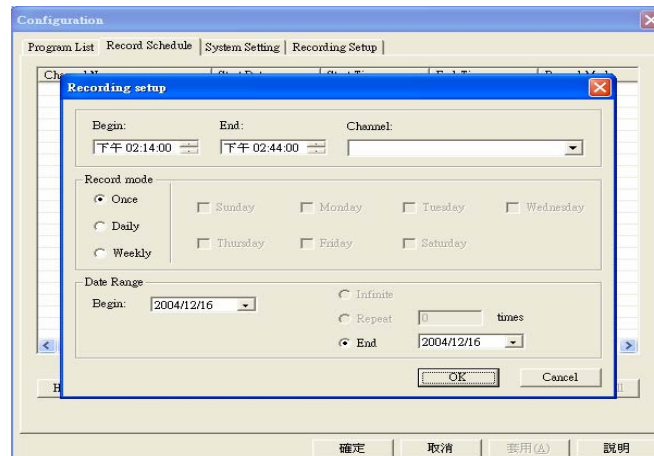


Icon	Function	Icon	Function
	Configuration		Video Adjustment
	Channel Scan		Multi Channel Preview
	FM		Hyper Links and Sat/Ter list live update
	Capture Pool		Record List
	Teletext		Input Switch
	EPG		Hibernate

4.2 Functions

- Video Recording

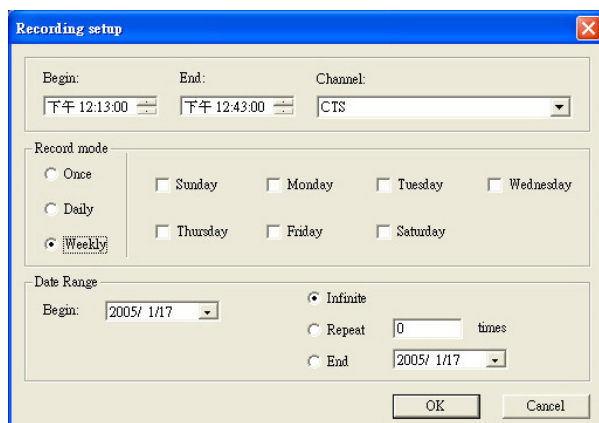
You can record video by clicking on . You may also setup Once/Daily/Weekly pre-schedule recording under Record Mode. Specify day when pre-scheduling weekly recording.

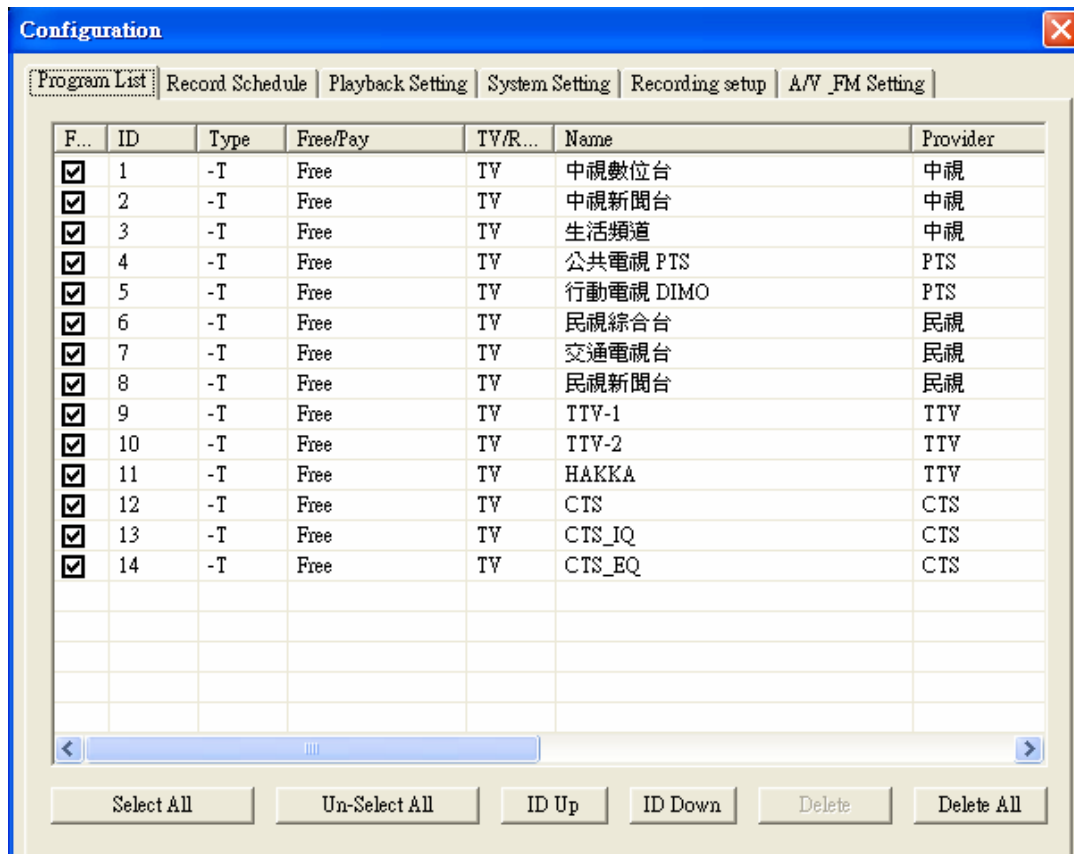


- Wake up recording

Enter the record information in “Recording Setup” under “Record Schedule” page first, and put your PC into sleep mode by pressing  button (“hibernate”). The system will wake up 5 minutes before your schedule time.

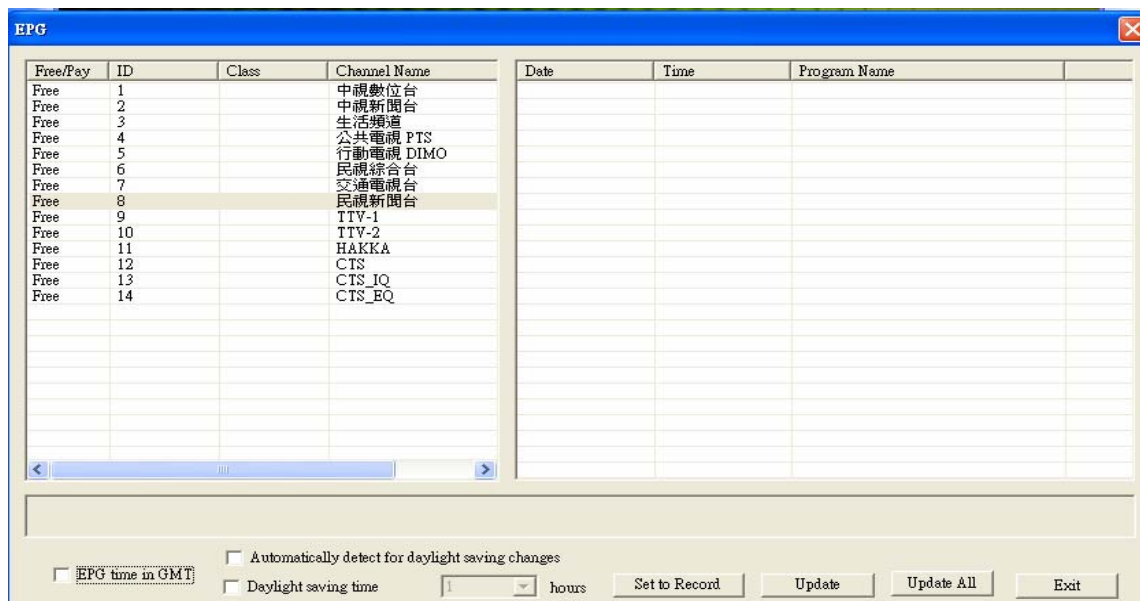
Note: Please make sure your system supports sleep mode and always set schedule recording timer at least 5 minutes ahead of the program starting time.





● Electronic Program Guide (EPG)

You may find program guide information by clicking on ; you may adjust day saving time as your local setting. (EPG is not available in all areas; Internet EPG is not available here)

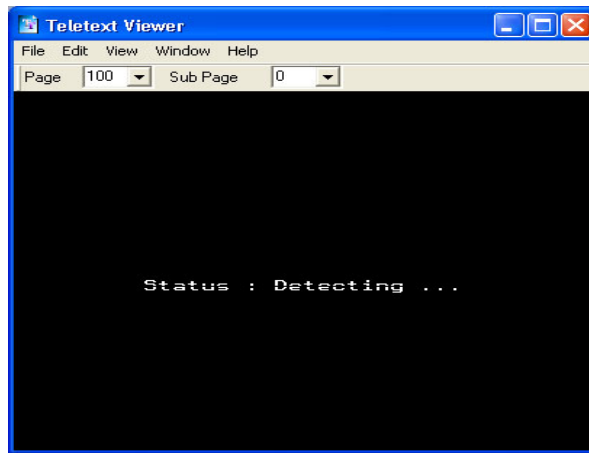


● Multi-Language

Please click on  to change language. (SAP is not available in all channels)

- Teletext

You may click on  to see Teletext information.



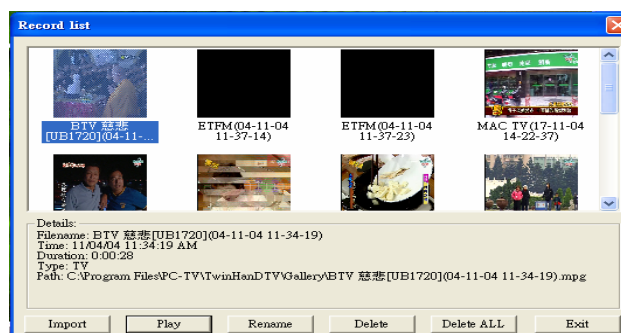
Note: Teletext is not supported under UK DVB-T standard

- Time-shifting

You may click on  to “pause” real-time TV program, and resume it by double-clicking on . Then, the show will go on from where you stop it without losing any seconds. (You may change time shifting space in configuration page). If you like to go back to the live program, click on  and it will stop time-shifting function.

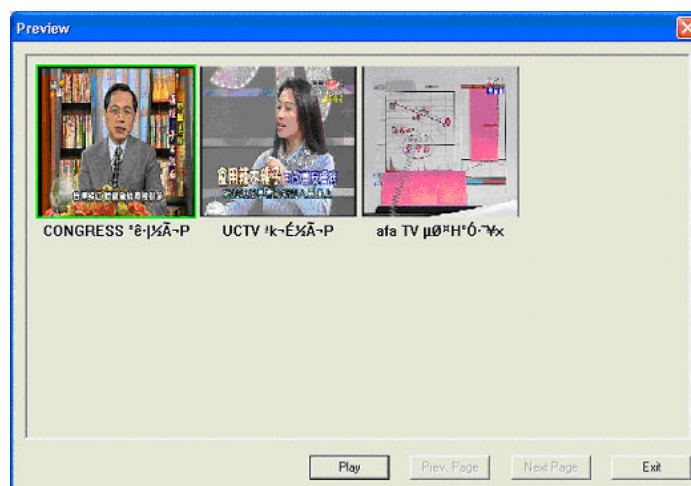
- Playback recorded file

You may click on  to open recording list to playback your recording file.



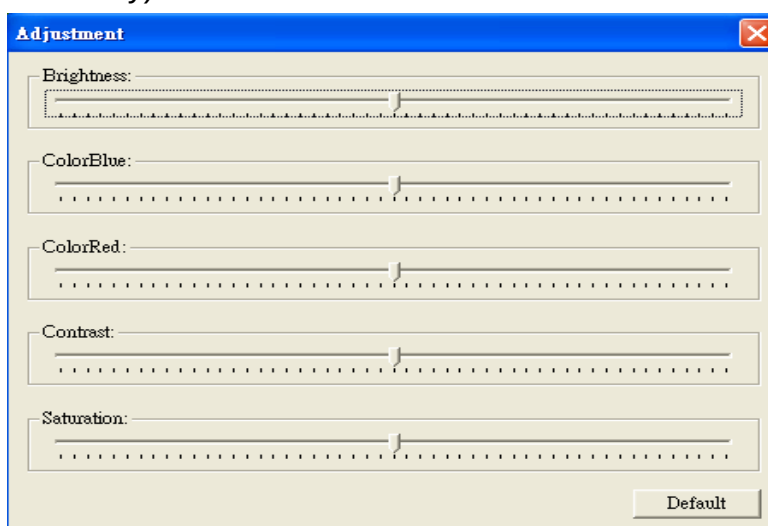
- Multi-Channel Preview

You may click on  to preview multiple channels at the same time. To watch the program you want, select it and click on “Play”. (You can only preview FTA channels from the same transponder.)



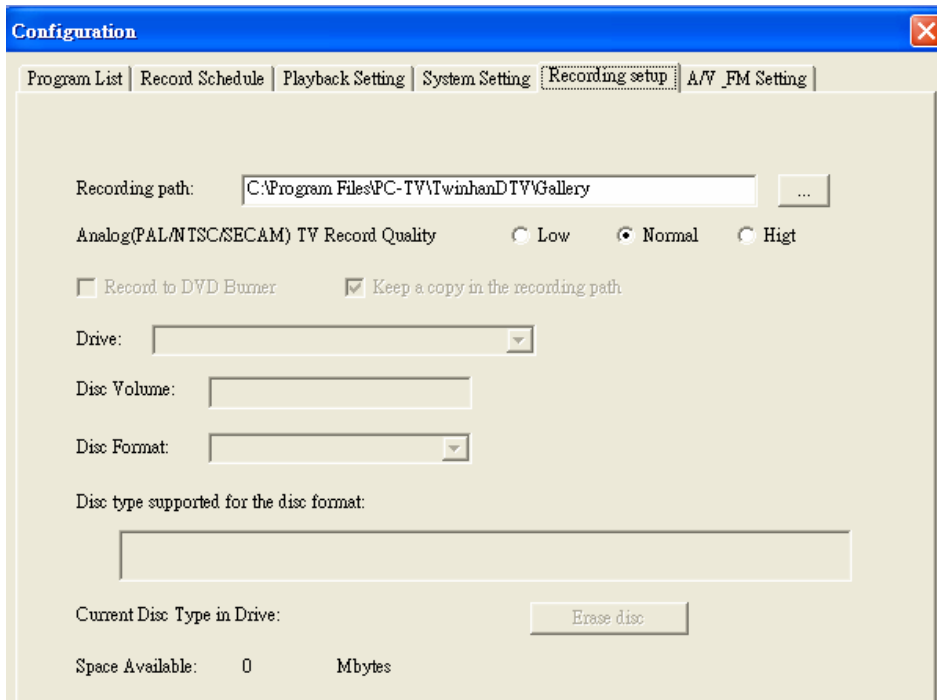
- Video adjustment

You may click on  to adjust brightness, color, contrast, and saturation of video display. (Digital TV only)



4.3 Configuration Page

Recording setup



The screenshot shows a 'Configuration' window with a blue title bar and a red close button. The 'Recording setup' tab is selected, showing various settings for recording. The 'Recording path' is set to 'C:\Program Files\PC-TV\TwinhanDTV\Gallery'. The 'Analog(PAL/NTSC/SECAM) TV Record Quality' is set to 'Normal'. There are checkboxes for 'Record to DVD Burner' (unchecked) and 'Keep a copy in the recording path' (checked). The 'Drive' is set to 'D:'. The 'Disc Volume' is set to '1'. The 'Disc Format' is set to 'DVD-R'. The 'Disc type supported for the disc format' is set to 'DVD-R'. The 'Current Disc Type in Drive' is set to 'DVD-R'. The 'Space Available' is 0 Mbytes. There is an 'Erase disc' button.

Configuration

Program List | Record Schedule | Playback Setting | System Setting | Recording setup | A/V FM Setting

Recording path: C:\Program Files\PC-TV\TwinhanDTV\Gallery ...

Analog(PAL/NTSC/SECAM) TV Record Quality ☐ Low ☒ Normal ☐ Higt

☐ Record to DVD Burner ☒ Keep a copy in the recording path

Drive: D:

Disc Volume: 1

Disc Format: DVD-R

Disc type supported for the disc format: DVD-R

Current Disc Type in Drive: DVD-R Erase disc

Space Available: 0 Mbytes

- Recording Path

Select a file where you want to save recorded files.

- Analog/Capture recording quality

You may select Analog/Capture recording quality as high or low (higher recording quality takes more space)

Playback setting

Configuration

Program List | Record Schedule | **Playback Setting** | System Setting | Recording setup | A/V_FM Setting

Decoder Setting:

☐ Enable MPEG2 Accelerator ☐ Mask off top edge of video frames(VBI)

☒ Force Decoding Noisy video frames Tolerance(0-100) %

☐ AC3 Audio Pass_Through (SPDIF output)

Teletext_Subtitle

☐ Show subtitle automatically

Teletext/Subtitle

OSD ☐ VMR ☒ Overlay

☐ Auto play on start up

☒ Mute when minimized

Screen Aspect Ratio: Full Screen display mode

☐ Stop playback while signal quality below %

☒ Show program information for s

- MPEG2 accelerator setting

If your VGA card supports DxVA function, you may enable this function to share CPU loading

- VBI setting

If your TV program has pixel mixing in video edge, you may select here to cut it out

- Force Decoding noisy video frames setting

You may select here to force software to play TV program with bad reception

- AC3 Audio Pass_Through (SPDIF output)

If you have Dolby sound card, you may enable this function to get 5.1 channel sound effects. (Not all TV program carry Dolby sound)

- Subtitle setting

You may select here to show subtitle automatically or not.

- OSD

Enable “Auto play on star up” and then the OSD will show on the screen when you start the player.

- Auto play setting

You may select to play TV program directly after launching software

- Mute setting

You may mute it when software is in minimum mode

- Aspect ratio setting/ Full screen setting

You may select TV program to show in different aspect ratio

- Stop playback while signal quality below

You may stop playing TV program when signal strength is below a specific degree

System setting

The screenshot shows the 'Configuration' window with the 'System Setting' tab selected. The window has a blue title bar and a standard Windows-style interface. The 'System Setting' tab is highlighted among others like 'Program List', 'Record Schedule', 'Playback Setting', 'Recording setup', and 'A/V FM Setting'. The 'Capture Setting' section has radio buttons for 'Capture single frame picture' (selected) and 'Capture multiple frame pictures'. The 'Multiple frame pictures' section has input fields for 'Every 10 seconds, repeat 10 times'. The 'Capture in' section has radio buttons for 'Native Resolution' and 'Aspect Ratio' (selected). The 'Power Management' section has radio buttons for 'On S3(\$TR)/S4(\$STD) Request' with options 'Accept and Close' (selected) and 'Reject', and a checkbox for 'Max CPU power required on playback'. The 'Predefined Program Classes' section shows a grid of buttons for 'News', 'sports', 'movie', 'music', 'business', 'drama', 'variety', 'education', 'adult', 'nature', 'politics', and 'vogue'. The 'Remote Controller' section has a checkbox for 'Remote controller LCN channel selection support' and a dropdown for 'Remote controller channel switch waiting delay' set to '2 s'. The 'Start in full screen mode' checkbox is unchecked, and the 'Time-Shift buffer size' is set to '10 Minutes'. There is a 'Parental Control Password' button. The 'Show Control Panel' section has checkboxes for 'in window mode' (checked) and 'in full screen mode'. The 'Set application thread priority' dropdown is set to 'Normal'.

- Capture setting

You may select to capture signal or multiple frames in native resolution or aspect ration (small size picture) format. You can set time and interval for multi-capture.

- Power management

If you choose “Reject”, TwinhanDTV will stop your system from getting into hibernate mode.

- Predefined Program Classes

You may change Predefined program classes to classify program in “Program List” page.

- Remote Controller LCN channel selection support

You may set remote controller as “Logic Channel Number” mode (Recommend for UK, France) or “Normal” mode (Recommend for other areas).

- Remote Controller channel switch waiting delay 2 seconds

Channel changes 2 seconds after you press on the up or down button.

- Start in full screen mode

You may select to start program as “full screen” mode or “normal size” mode

- Time-Shifting buffer size

You may select maximum Time-Shifting time; the longer time you set, the bigger disk space will be required.

- Parental control password

You may set password to specific channels to avoid children from watching adult programs. Password will be required when anyone want to watch these specific

channels.

- Control panel setting

You may the size of the screen as” Windows mode” or “Full screen mode”

- TV Application Priority

You may select TV program as first priority program of your PC. If other application programs are used when playing TV, they will take CPU resource and slow down the player.

Recording schedule

Configuration

Program List | Record Schedule | Playback Setting | System Setting | Recording setup | AV FM Setting

Channel Name	Start Date	Start Time	End Time	Record Mode

< [Progress Bar] >

Hibernate Create Modify Delete Delete All

- You may create/modify/delete schedule recording here

4.4 Right Click Menu

Right-click on your mouse over the TwinhanDTV interface to open a pop-up menu:

✓ Play	Play: Play video
Pause	Pause: Pause the video you are currently watching
Stop	Stop: Stop the video you are currently watching
Record	Record: Record the video program you are currently watching
Fast Rewind	Rewind: Rewind when you are watching recorded video
Fast Forward	Fast Forward: Fast forward when you are watching recorded video
Time Shifting	Time Shifting: Start or pause the "Time Shifting" function
Channel Up	Channel Up: Change to previous channel
Channel Down	Channel Down: Change to next channel
Last Channel	Last Channel: Change to the last channel
EPG	EPG: Show EPG window
Preview	Preview: Multi-channel preview (only for FTA channels)
Capture	Capture: Capture a still frame of the video
Teletext	Teletext: Show teletext window.
Apid (SAP) switch	Language: Change speaking language
Mute	Apid (SAP): Switch audio from different sources
Configuration	Mute: Turn the sound off
Channel Scan	Configuration: Show configuration page
Recording	Channel Scan: Show Channel Scan setting page.
✓ Favorite List	Record List: Open record list
✓ Control Panel	Favorite List: Open favorites list
Top Most	Control Panel: Show control panel
About	Top Most: Place TwinhanDTV always on the top
Exit	About: Display version information of TwinhanDTV.
	Exit: Turn off TwinhanDTV.

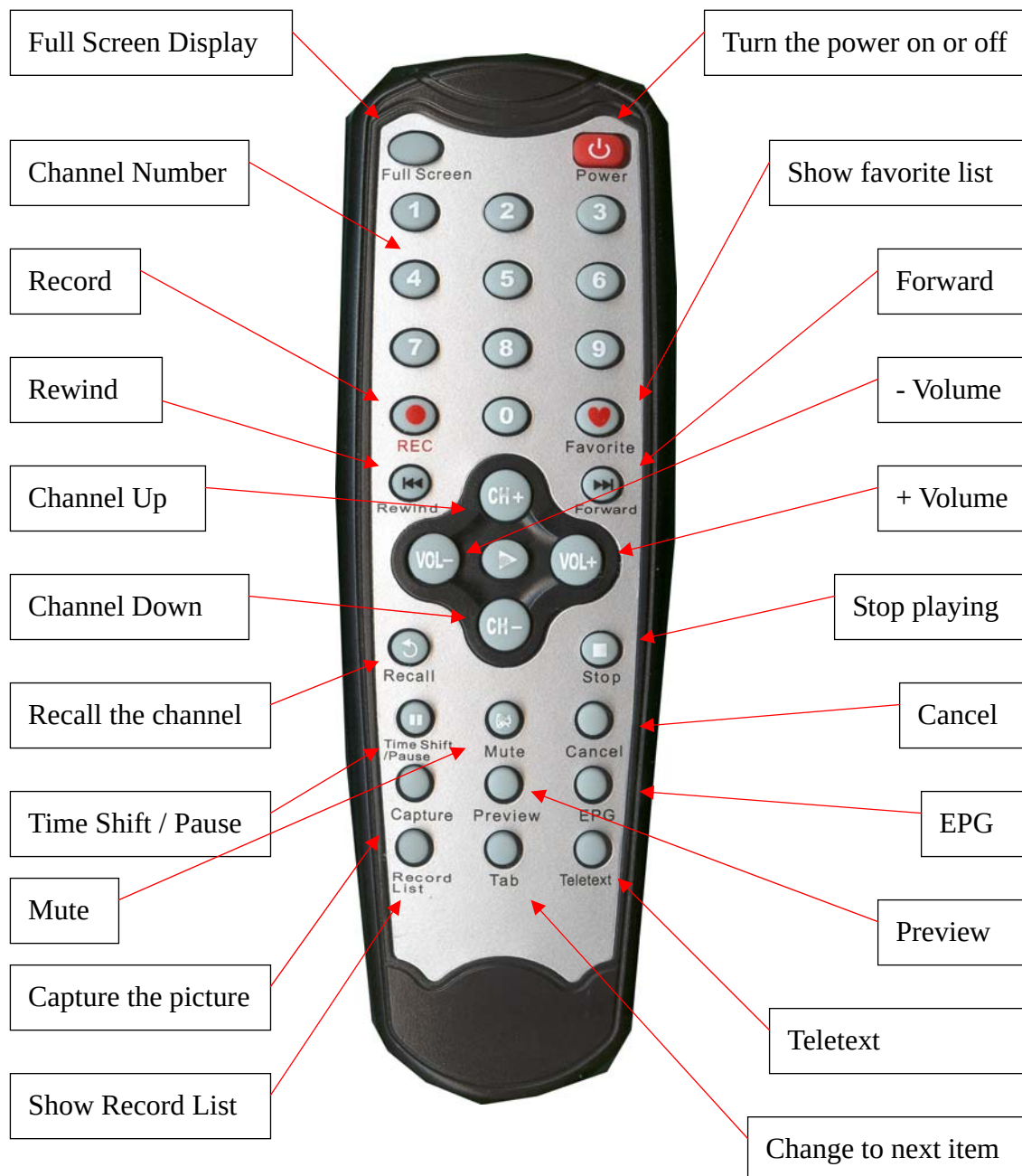
4.5 Keyboard Shortcuts

Function	Keyboard Shortcut
Play	Enter
Stop	End
Pause	Space bar
Full Screen	Z
Properties windows	O
Record	Home
Stop Record	End
Program list	L
Time Shifting	T
Channel up	Page up
Channel down	Page down
Volume up	Shift + Arrow up
Volume down	Shift + Arrow down
Help	F1
Key cancel	Esc
Key enter	Enter
TwinhanDTV Exit	X
Mute	M
Right Speaker	Ctrl + R
Left Speaker	Ctrl + L
Favorites List	V
EPG	E
Preview	K
Fast Forward	F
Rewind	R

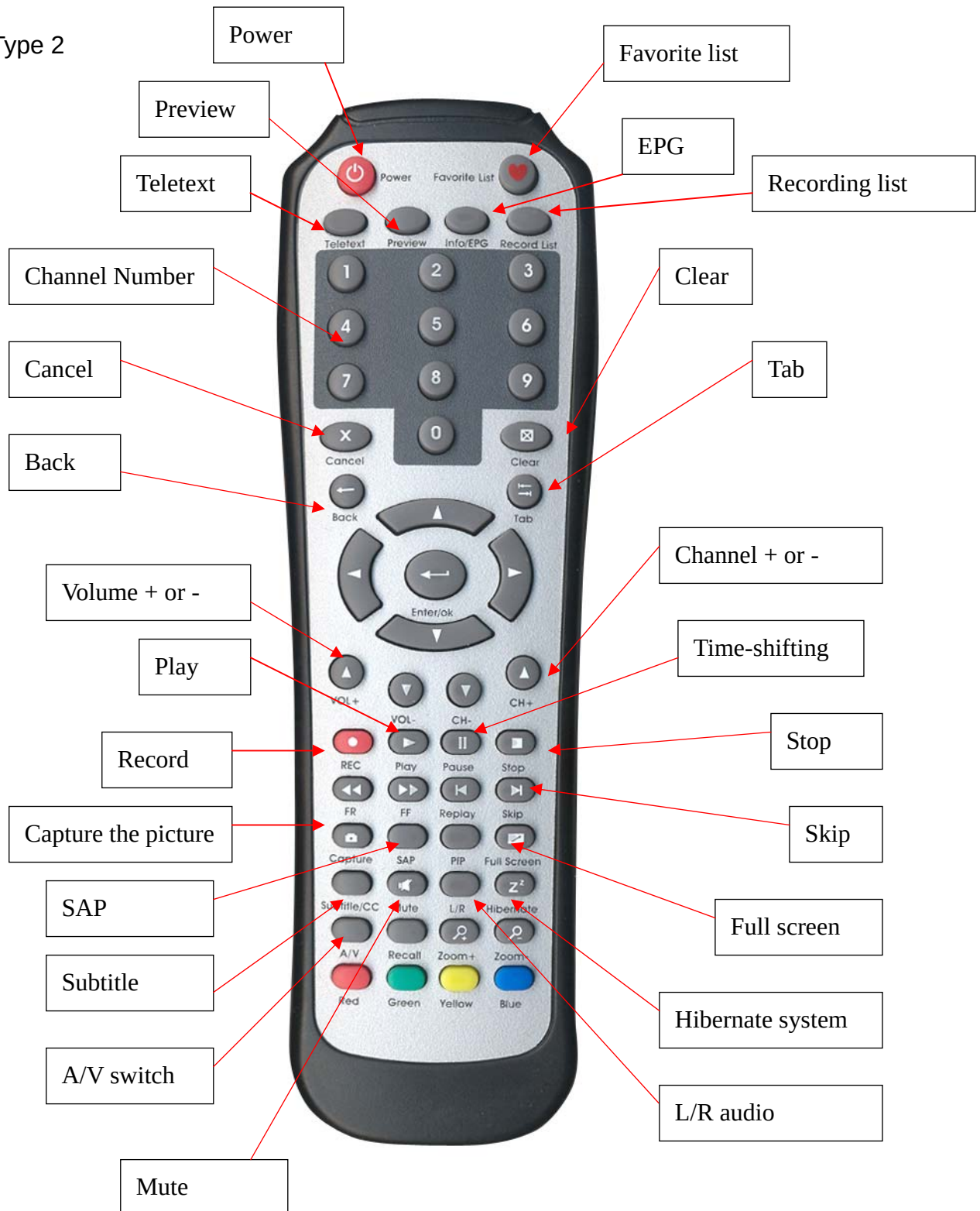
Appendix 1 Remote Controller Key Definition

Different models have different remote control; please select the one you have. If “Function not supported” shows on screen when you press the button, it means the function is not available for the present version of TwinhanDTV. Please log on our website <http://www.twinhan.com> to download the latest application program.

Type 1



Type 2



Appendix 2 Trouble Shooting

General

1. Windows cannot recognize TwinHan card correctly (for example: recognize DVB-T as DVB-S):

You may switch to a different PCI slot and try again. Please make sure that your PCI slot and PCI part of card are clean

2. Error message "Setting error! Fail to play the program!" or "Fail to play your program" shows up:

- Please check the driver of VGA card and sound card
- Please make sure the hardware and software settings are correct, and try scanning again
- Please install Microsoft DirectX9.0c and Media Player 9.0 or higher version
- Poor signal quality could cause that TwinhanDTV can not receive enough data of program or received wrong data.
- It is a pay-TV channel and you are not authorized to watch
- Make sure to use the latest version of TwinhanDTV software for decoder.
Register C:\Program Files\PC-TV\Common\Bin\claud.ax and CLVSD-dtv.ax again with regsvr32.exe in C:\Windows\System32.

3. Screen blacked out when playing, or playback freezes on first picture.

Find and install the latest VGA driver and DirectX 9.0c, and check if any other DTV players are installed, e.g. ProgDVB. If yes, remove them and uninstall all the filter drivers.

4. What format of video does TwinhanDTV record as? Why do I have problem with converting/burning this file?

MPEG2. However, since some broadcasters have problems at Kpbs rate in their TS (which is over DVD format limit), you will need to use MPEG editing software to adjust Kpbs rate.

5. Error message "Hardware setting error"

Please reinstall the driver.

6. Video can be played but Audio failed.

Please check the sound card or the volume setting.

7. Can I view and record different channels at the same time?

Yes, but the channels must be from the same transponder.

8. Why my EPG, Teletext and Subtitle cannot be shown?

In some areas, the broadcasters do not provide the services above. Please contact your broadcaster for more information.

9. Cannot find driver for R/C receiver.

Please re-plug the receiver or change to a different USB port. You do not need to install additional drivers because it will install the built-in HID driver in your OS.

10. Remote control does not work

Check whether there are batteries inside. Then, check remote receiver: The red light on receiver will remain ON while it is getting signal from the remote control. Also, your remote control must point at the receiver when in use.

11. Can Remote controller be used on PowerDVD or other software?

No, the remote controller is designed only to support TwinHan products.

Satellite

1. Why can not I lock any channels when auto-scanning?

- Please click on "Apply" button after you change any settings in "Dish Setup", and then scan satellite or transponders.
- Check whether the dish aims at the right satellite.
- Check the cable connection between TwinhanDTV device and the dish.
- Please note that the cable should be connected to "LNB In" F-connector of the card.
- Set LNB power on to supply power to LNB. Note that most LNB need power supply from tuner.
- Check whether the voltage for LNB is correct. (18V-21V for Horizontal or 11V-14V for Vertical)
- Check the settings of satellite; for example, LNB frequency is for C band or Ku band.
- Check the switch settings in "LNB - Switch" setting in "Configuration".
- Please re-insert the TwinhanDTV device to another PCI slot or USB port.

2. When the dialog "Unlock!" pops up, you can...

- check the setting of polarization (H or V);
- check the cable connection between TwinhanDTV device and the dish.
- Please note that the cable should be connected to "LNB In" F-connector of the card.

3."22 KHz error" and "LNB Power Open Error"

- Make sure that your TwinhanDTV Sat/Sat-CI Card Driver was installed. (from device manager)
- Please note that any other TV tuner card equipped with Conexant BT878 can not be installed in the PC at the same time. Please remove other TV tuner card and its driver.
- Re-insert the TwinhanDTV Sat/Sat-CI Card to another PCI slot. The previous PCI slot might be damaged.
- Clean up the golden finger of the TwinhanDTV Sat/Sat-CI Card by pencil eraser.

4. Why can I not receive 18V program?

The LNB is 13V vertical LNB. IRD only receives 13V Program, TwinhanDTV only receive 18V Program. LNB is biased 2 cm. Please adjust the LNB or contact the dish installer for service.

Terrestrial

1. Why can not I lock any channels when auto-scanning?

Check whether the antenna connects to the device correctly.

Check whether the signal in your area is strong enough.

(http://www.twinhan.com/support_Signal-Coverage-Search.asp)