FREECOM DVB-T USB STICK



MANUAL Rev. 535



Dear customer,

The Freecom DVB-T Stick is fully compatible with DVB-T protocol for your desktop PC or laptop use. Its tiny size design with high speed USB2.0 interface let you enjoy digital TV programs anywhere!

It is also a Digital Video Recorder that you may record your favorite TV programs on your hard disk either real time or scheduling. Quick setup makes it easy to use. It provides you an immediate personal access with lots useful functions such as Channel Auto Scan, Teletext, Electronic Program Guide, Favorite List etc. Yet, there is no need for an extra power supply.

> Freecom Technologies • Germany www.freecom.com

Warning !

All rights reserved. The products named in this manual are only used for identification purposes and may be trademarks or registered trademarks of the respective companies. This device was designed for home or office use.

This device is equipment complying with EN55022 class B.

Freecom Technologies is not liable for any damages that may occur from the use of a Freecom system. All rights reserved. We reserve the right to upgrade our products in keeping with technological advances.

Users manual

General Information page	4
Warnings and Safety Instructionspage	5

How to Install

instantion stepspage	Installation Steps		. page	6
----------------------	--------------------	--	--------	---

Chapter 1:

Chapter 2:

Install Driver and Applicationpage	8
Install Driver page	8
Install Application page	12

Chapter 3:

DTV Software / System Introduction	page 1	17
------------------------------------	--------	----

Chapter 5:

DTV Software Introduction	page	25
---------------------------	------	----

Chapter 6:

Trouble Shooting	/ Frequently A	Asked Questions	(FAQ)	page	31
------------------	----------------	-----------------	-------	------	----

Package Contents

- Freecom DVB-T Stick
- IR Remote Control
- Quick Installation Guide
- Terrestrial Antenna
- MCX-IEC Connector
- Manual & Application CD

System Requirements

The following hard- and software requirements must be fulfilled to ensure trouble-free operation.

Hardware Requirements

- IBM or IBM compatible computer
- CPU : 1 GHz or above
- Memory : 128MB or more
- Sound card

Software Requirements

- OS : Windows 2000(SP4)/ XP(SP1) or higher
- Microsoft DirectX9.0 or above
- Microsoft Media Player7.0 or above

Important Notice: "All channels are subject to coverage and may be changed from time to time. Reception may depend on the type and condition of your existing aerial. Aerial upgrade may be required. Please confirm coverage in your area." We strongly recommend that you install an outdoors antenna when you use the DTV receiver indoors.

Warnings and Safety Instructions

Please read and follow the below mentioned instructions. They should be observed in order to prevent injury to the user, damage to the device and damage to property, as well as to ensure safe use of the product. Not following these instructions may cause the unit to malfunction.

Note:

- 1. Terrestrial digital wireless broadcast signal may be affected by topography, objects and weather. This would cause a poor signal quality. Therefore, we strongly suggest you to use a rooftop antenna when received indoors.
- 2. This product is moveable but not be suitable of using in a high speed moving environment. Please check other associated products for these requirements.
- 3. When you use the function of pre-recording, real time recording, or time shifting, please make sure you have enough hard disk space to save huge recording data.
- 4. In order to operate properly, please follow the user manual and suggestive setup. Improper operations may cause the system unstable or crash. Before you remove hard disk devices, please check other related application has been closed.

We reserves the right to add or delete the application and its functions; all new release drivers and application will be men tioned in our website. We are not responsible for fürther notice

How to Install

Installation Steps

- Connect the Freecom DVB-T Stick to your computer.
- Install Driver
- Install DTV application
- Install DirectX 9.0 and reboot your system. (If DirectX 9.0 is already installed, you may skip to next step)
- Restart Computer

Chapter 1: Connect Freecom DVB-T Stick

Receiver to your computer

1. Connecting IEC connector to antenna.



2. Connecting antenna to PenType Receiver



3. Connecting PenType Receiver to USB interface on your computer.



4. (Option:) You may need longer USB cable for the connection between PenType Receiver and USB interface on your computer.



Note: When connecting the Freecom DVB-T USB Stick to a notebook, make sure the energy saving function is deactivated. The energy saving function reduces CPU performance and might influence the operation of the DVB-T USB stick.

Note: The antenna and the DVB-T USB receiver must be placed in an appropriate position for best reception each time the DTV is used.

Chapter 2: Install Driver and Application

2.1 Install Driver

Please connect the Freecom DVB-T Stick to your computer to start the driver installation.

- 1. Insert the included CD in your CD-ROM drive.
- Computer will detect the new hardware and Found New Hardware Wizard window will be popped up. Please select "Install from a list or specific location (Advanced)".



 Please select "Search for the best driver in these locations". You may click "Browse" to find the driver location on CD-ROM directory. Choose "\DVB-T USB 2.0\DTV_Driver".



4. Click "Continue Anyway" to continue



5. Click "Finish" to continue.

Found New Hardware Wi	Completing the Found New Hardware Wizard The waarbas finited intaling the software for:
	Click Finish to close the wicerd.
	CBack: Frish Cancel

6. Please select "Install from a list or specific location (Advanced)" then click "Next" to continue.

Found New Hardware Wi	sard
	Welcome to the Found New Hardware Wizard This wizard helps you install software for: Digital TV U220
	If your hardware came with an installation CD or floppy disk, insert it now.
	What do you want the wizard to do? O Instal the voltware automatically (Recommended) O Install from a list or specific location (Advanced)
	Elick Next to continue.
	CBack Next> Cancel

 Please select "Search for the best driver in these locations". You may click "Browse" to find the driver location on CD-ROM directory. Choose ""\DVB-T USB 2.0\DTV_Driver"".

Please ch	oose your search and installation options.
⊙ <u>S</u> ea	rch for the best driver in these locations.
Use path	the check boxes below to limit or expand the default search, which includes local is and removable media. The best driver found will be installed.
E	Search removable media (floppy, CD-ROM)
E	Include this location in the search:
	F:\DVB-T USB 2.0\DTV_Driver Bjowse
ODor	It search. I will choose the driver to install
Cho	ose this option to select the device driver from a list. Windows does not guarante
the	Inver you choose will be the best match for your hardware.

8. Please click "Continue Anyway" to continue.



9. Click "Finish" to exit.



10. Installation of the application software will now start automatically.

Remark: Run the setup from the "DVB-T USB 2.0" folder on the included CD if the installation does not start automatically.

2.2 Install Application

1. Click "Next" to continue.



2. Please read the license agreement carefully then select "I agree to the terms of this license agreement". Click "Next" to continue.



3. Fill in user's information in the column. Click "Next" to continue.

click. Next to continue.	ST.
	click Next to continue

GB _____ 2 4. Enter product's serial number and click "Next" to continue.



5. Select a language edition. Choose English and click "Next" to continue.



6. This window is the original setting path and folder name. You may change it according to personal reference. Click "**Next**" to continue.

allation Folder		11 miles
Select an installation felder and click Next to	continue.	S
The software will be installed in the folder list either type in a new path, or click Change to	ed below. To install to a dif browse for an existing told	ierent folder,
Install DVB-T USB 2.0 to:		
C. Program Files OTV DVB-T USB 2.0		Change
Ennes and had an diver	3.2 MB	
obace rednaed ou duve:		
Space available on selected drive:	2491 MB	

7. This window is the original shortcut icon and pre-setting shortcut folder. You may change the folder name or appoint to an existing folder. Click "Next" to continue.



8. Please make sure the path and folder name is correct. Click "Next" to continue.



The following window indicates that the installation of DTV application is proceeding.

Installing Files	L
Installing Files	piraman.
The program files are being installed.	
Please wait while the necessary files are installed.	
Instaling	
C:\\VINDOWS\System32\Drivers\usbport.sys	
	Canad
	Lancel

10. Please check "Yes, restart my computer now." Click "Finish" to continue.



11. Click "Finish" and computer will be restarted automatically. The application installation is done successfully.



12. You may double check if the product drivers are installed properly. Please press **Start** then right click **My Computer**. Click "**Properties**".



13. Click "Device Manager" from Hardware tab. Find "Sound, video and game controllers" category and you may see "Digital TV Receiver" on the list. If you do not see it. Please go back and install the drivers again.

System Reptore	Autora	atic Updates	Resista
General Con	suler Name	Hardware	Advances
Abd Haidware widard	de ser befored h	deriver bereitend	
R Ine Hod In	FORVER WILLING F	ept you havai haid	word.
-		·	
		Add Hardwa	te Wised
2010/02/02/02			
Device Manager			
The Desire	Manager lists all	the hardware devic	at initialed
	outer Husike D	source bit so many to of	Anna the
an your con properties o	puter. Use the D any device.	evice Manager to c	kange the
an your con properties o	puter. Use the D Lary device.	evice Manager to o	kange the
on your con propertier o	puter. Use the D I any device. It Signing	evice Manager to o	kange the anogel
An your con properties o Drive	puter. Use the D lary device. H Signing	Vevice Manager to o	kange fre anogel
Hadware Proties	puter, Use the D any device. It Signing	vevice Manager to o	kange the anager
Hadware Profiles	puter Use the D lary device. In Signing chiller provide an dware configurat	vevice Manager to o Device M map for you to set up ione.	kange the anager
Hardware Profiles	puter Use the D lary device. In Signing critike: provide an dware configurat	vevice Manager to o Device M map for you to set up sone.	kange the anaget
Hadware Profiles Hadware Profiles Hadware Profiles	gute. Use the D l any device. It Signing office provide as dware configurat	vevice Manager to o Device M map for you to set up sons. Hardman	anoger and store
Hadware Profiles	puter. Use the D any device. H Signing critics provide a dware configurat	evice Manager to o Device M map for you to net up good. Hardware	kange the onoger o and stose Problec



14. If one of the drivers wasn't installed correctly, the device will be shown with a yellow exclamation mark in the device manager. To reinstall the driver, right-click on the device and select "Update driver". Install the driver again as described in chapter 2.1.

Later installation of the DVB-T application

If you uninstalled the software or cancelled the software installation, you can run the software installation again any time by running the "Setup.exe" from the "DVB-T USB 2.0" folder on the CD.

Chapter 3: DTV Software / System Introduction

DVB-T player Software is very powerful. You can easily enjoy the high quality digital sound and visual effect. Not only it provides the TV program, you can also use it to do the instant digital video recording (DVR) and Scheduling Recording. With the help of the operation of Time Shift, you won't miss any best moment.

After you finish the installation of the software, you will find an icon "DVB-TPlayer". Just move the cursor and double click it to run the program.



After you run the DTV software, you can use the control panel as following.



3.1 Setup of the Digital Broadcasting program

Due to different country or region, digital TV program has its own choice of operating frequency channel, frequency width, transmitting parameter and frequency. The following instructions will show you environment setup.

Scan Frequency:

1. Click 🔄 the operating panel then choose Scan Channel tab.

RF Frequency	19	1.154	
LUK W	Di Program	Faiq	Open
C.M. [679.7]			Same
C Range UHF V			Sport as
Stat 474.0 MHz	_		Diary
End BERD MHz			DWARK
C Single			
553 (MHz)	Rada Cistas		
Eardwidth	Hauto station		
8 • PHHz)	Di Program	Freq	
CTT Made			
Auto VIKI			
tes The			
Scan			
- 5191 - 510			
Saus Davana	1 32		

2. Choose RF Frequency. You may select one of the following.



- 1. Country/ Area: You may choose the location where you are.
- **2.** All: If you can not find your location list in Country/ Area list, you may select this option.
- **3. Range**: You may define your own frequency range. Choose VHF or UHF then enter its frequency range.
- **4. Single**: If you know exact frequency of a digital program, you may enter its frequency here.
- 3. Click "Start" to scan frequency based on the option of RF Frequency you select.
- 4. You may save all scanned channels by Click "Save as".
- 5. Click "OK" to exit the operating panel.

Note: Channel list will be saved as TBL file.

Country / Area	Ch	Program	Frea +	Time
Lux m	1	ITV1	482	1.0004
ux 🔳	2	ITV 2	482	5/6/
67.8 *	3	Channel 4	482	
FILE ST	4	ITV News	492	Same
side forme	5	price-drop.tv	492	-
at 474.01 MHz1	6	UKTV Food	482	
d Imme	7	BBC NEWS 24	506	-
a lese or (MHz)	8	CSBC Channel	506	
	9	88C TW0	506 💌	
	4		1.1	
(MHz)	Ch 12	Program BBC Asian Net.	Freq. + 530	
	13	10ths BBC	530	
Mode	14	88C 7	530	
	15	BBC 6 Music	530	
100		BBC 5L SportsX	530	
(K)	16	and the other states of the st		
<u>×</u> (K)	16	a	538	
<u>×</u> (K)	16 17 18	Q Magic	538 538	
⊻ (K)	16 17 18 19	Q Magic The Hits Radio	538 538 530	
n tint Stop	16 17 18 19 20	Q Magic The Hits Radio Kenangl	538 538 538 538	J

Channel/ Frequency Sorting

You may use channel/ frequency sorting option after scan.

- 1. Click on "Program" and it will be shown by channel sorting.
- 2. Click on "Freq" and it will be shown by frequency sorting.

In addition, you may prioritize the channel list. Simply click on a channel and drag it to where you want (move up or down).

RF Frequency	TV		11	si .
Country / Area UK W Al CAI C	Ch 1 2 3 4	Program DSF Tectkanal NEU VIVA Plus Eurosport	Freq 557.000 557.000 557.000 557.000	Open Save Save as Delete
Single Sizz Mandwidth B (MHz)	Radio	Station (Program)	(First	
FFT Hade Auto (K) Scan Start Stop				
Scan Progress				

3.2 Recording Setting

There are two ways of recording: one is real time recording and another is scheduling recording.

neal Sca	n Channel Rec	ord Display Cap	nues TimeSh	at Skin	
Storage Re	104808				
Deve C-V D-V E-V	Total Space 10226 MBytes 30346 MBytes 60000 MBytes	Free Space 7078 M Bytes 6656 M Bytes 4665 M Bytes			
SaveTo	CAProgram F	les VD TV VDVID-T U	ISB 2/0 Captu	e/Channel_	10
Program					
VE AS	Suma 1		1	E.	21
ere er	Capture		* 61	1	
ava in 🔽	Capture		20	1	
area inc 🔁) Capture		10	1 🖻 🖻	
aven int <table-cell></table-cell>	Capture (10) 🖓 🖽	
ave in T	Capture		NO	1 🕫 🖽	
ava av	Capture		NO) 🕞 🖽	
ava at 🔁	Capture		NO	1 🕫 🖽	
ava in 🔁	Capluse			; [2] [3]	
ave at C) Caphue			1 [2 [3]	
ieve in 📔	Capture		10	3 P D	
eve in E	Capture			7 1 1	we
e name: we as type	Capture	esi		1 - D 50] _ Car	we

 Real time recording: when you record the program under the real time mode, the recorded file will be saved to the default destination folder at C:\Program Files\DTV\DVB-T USB 2.0\Capture\Video.mpg. If you want to save the program file to a different destination, you may set up the path based on your preference.

After the above setting finished, you can click the "o" on the control panel when you watch digital programs. If you start recording, the clock on the left of the control panel will turn red. If you wish stop the recording, please press the button "".

SPEE	D N24
Digi	tal TV Receiver
2121213	

GB _____ 3 2. **Scheduling Recording**: Please choose **Setup**. Select Record tab and check Enable Preset. Double click on Channel column in Preset Record section.

Diive CA DA EA	Total Spa 10226 ME 30346 ME 60000 ME	te Free Space Sylaz 7078 MByłaz Sylas 6555 MByłas Sylas 4665 MByłas	
SaveTo	C/Pro	gran Files/DTV/DVID-T USB 2	0.Capture/Channel
Tenat Field ✓ Enable	oid Piecel		
No	Channel	Star Time	EndTime .
1			1.
2			
3			
3 4 5			
2 3 4 5 6			
3 4 5 6 7			
3 4 5 6 7 B			
2 3 4 5 6 7 8 9			
3 4 5 6 7 9 *			,

When Record Input Window pops up, please follow the instructions below.

- 1. Choose a channel
- 2. Set recording start time and end time
- 3. You may have date setting options which are once, everyday and **one** specific day.
- Mute speakers when recording is available when checked. Click "OK" to continue.

hannel			Date Setting
1 DISF		8	Once
			O Every Day
Start Time			O Every
20100000	10.00	(en)	Sunday Thursday
studiana 🔜	10:40		Monday Eriday
			Tuesday Saturday
ind Time			Wednesday
2/18/2005 😒	10:40	0	Mute speakers when recording
Cancel	0r	<u> </u>	

5. When recording is finished, the menu will show "**ok**" as below.

DA EA	Total Spa 10226 MB 30945 MB 60000 MB	ce Free Space 94es 7005 NBytes 94es 6655 MBytes 94ex 4665 NBytes	
iave To Plogress	C:\Pie	gian Filev DTV/DVB-T USB 20%Ca	plure/Channel_
Frencet File F Ensab	ecord le Preset	1	
Na	Channel	Stat Time	EndTime
ok 1	VING	2005/03/07, 10: 32, Mond	2005/03/07
2	010	2000703701.10.34.14040	20007-007-02.
4	-		
5			
6			
6 7			
6 7 8			
6 7 8 9			

Note: At the same period of time, you can't record two programs from different frequencies. Please be aware of the capacity of the recording device. Long hours recording might exceed the hard disk capacity.

3.3 Display setup

On the display setup window, you can adjust the brightness, contrasting, and fullness based on your own preference. Drag the mouse cursor to do the adjustments. If you want to go back to the original setting, click **"Reset"**.

ieneral Sc	an Channel R	ecord Display Capture Ti	meShit Skin
Brightness	Low		128 High
Contract	Low —		71 High
Hue	Low		— 0 High
Saturation	Low —		64 High
			Reset

3.4 Capture setup

You may capture image and save it. When TV program displays, you may click so button. The image is captured and saved. You may click read to find and get your image file.

Jpen				? ×
Look in	Capture	*		• 🛄 •
S FMTV_200	5_0307_1033_14			
File name:	FMTV_2005_0307_1032_02		_ [Open
File name: Files of type:	FMTV_2005_0307_1032_02		- [Open Cancel
File name: Files of type:	FMTV_2005_0307_1032_02 Al Media Files Al Media Files Maria Eles			Open Cancel
File name: Files of type:	FMTV_2005_0307_1032_02 Al Media Files All Modia Files Movie Files Audio Files		- [-	Open Cancel

3.5 Time shift Setup

If you need to leave in the middle of a program, you may start recording function by clicking the Time-Shift button on real time. When you return, just move the scroll bar which indicates recording status on the panel to playback the program you pre-record. The system will continually record the program when you play until the time limit you set. You may use **Rewind**, **Fast-Forward** or **Pause** function when pre-record program is playing and press **Play** button to return.



Note: The pre-record program is temporarily saved in your hard drive and it will be automatically removed when time is up. The default setting is 10 minutes and you may change Time-Shift time limit.

Chapter 4: DTV Software Introduction

4.1 Control Panel

Icon Functions					
lcon	Function	lcon	Function		
*	Full screen		play		
DEL	On-Line Help	*	Rewind, fast-forward Stop		
Ħ	Multi-channel Preview		Pause		
CH+ CH-	Channel up and down Channel recall	•	Video Recording		
	My favorite	0	Photo capture		
TS	Time shift	×	Mute		
0	Open saving file	+	Volume down		
R.	System property setup		Receive DVB-T		
EPG	Electronic program guide	TV	broadcasting		
TTX					

4.2 Right Click Menu and Keyboard Shortcuts

Click the right button of the mouse when DTV application software is in playback. You will see the function and keyboard shortcuts menu as following:

Function display	Fast-link	Function description
Playback	Enter	Playback program
Pause	Space	Pause the playing
Stop	S	Stop playing
Record	R	Record the on-going program
Mute	М	Shut down sound
Fast-forward	F	Fast –forward the on-going program
Rewind	В	Rewind the on-going program
Next Channel	Ν	Switch to next program
Previous channel	Р	Switch to previous program
Channel recall	L	Switch to previous watching channel
My favorite	Ctrl+M	Open the favorite menu
Multi-channel browse	Ctrl+W	Provide multi-channel browse (non-Syncronized)
Choice of language	Ctrl+L	Provide language switch
Time shift	т	Start or pause time shift function
Capture	G	Capture single picture as photo
Setup	E	Start setup function
Display control panel	0	Display control panel or not
Display ratio		Select display ratio either 4:3 or 16:9
Image size		Choice of image size 60%,100% ,150%
Full screen	W	Switch full screen or window
Increase volume	+	Increase volume
Decrease volume	_	Decrease volume
Close to bar	Ctrl+Z	Close control panel to bar
About	Ctrl+A	Display DTV version information
Help	н	On-line help
Close	Ctrl+X	Close DTV playing software

4.3 Functions

Channel Title Display

The current channel name will be displayed on the control panel in the language assigned by the channel provider.

Video Recording

You can record video by clicking on 🦲 . You can also schedule recordings in the

"Recording Setup" screen.

Multi-Channel Preview

Click on IIII on the control panel to preview multi-channel at the same time.

To watch the program you want, select it and click "Play".

Note: You can only preview FTA channels from the same transponder.

Capture

Click on 🚳 to capture a still frame of the program you are currently watching.

Teletext

The application "Teletext" is a simple teletext browser. To start this function,

click on more on the control panel. It only works when Freecom DVB-T Stick is running.

Electronic Program Guide(EPG)

Click on **EVEN** on the control panel to see the electronic program guide provided by the content provider. Here you can get more information about the broadcasting programs.

4.4 More Functions

Mute display : When you click "Mute" button, **will light up on the control** panel.

Signal display: In the setting menu "General", choose (refresh RF information). Move the cursor to *the signal receiving in motion.* But it's very power consuming. We do not suggest using it if the battery is not enough in the system.

Warning ! This selection will affect some quality and function. Don't use it under normal circumstance. We suggest that you turn off this function after executing the "Refresh RF information"

Recording display: When you start real-time or scheduling recording, the **t** on the control panel will turn red.

Program channel display :

on the control panel will indicates the channel of on-going playing or recording program.

Source of display: When digital broadcasting program is playing, the control panel will indicate its source as following Digital TV Receiver. If it's playing the recorded or selected image, the control panel will indicate the file name or status as following View04.mpz

Volume display : When you adjust the volume, the volume icon 🗾 will change

accordingly .

Electronic Program Menu : You may enter the program menu by choosing

on the control panel. You will receive the information of channel programs such as programs schedule and introductions of the programs. (This function is provided by the channel provider). You may double click on a "channel schedule" and scheduling recording setup window will pop out.



Teletext : It is an application of words and numbers broadcasting. You may receive program information from channel provider. Select **m** to start this function.

Teletoxt					
P+P-F+F-M+M-H S 60					
100 DSF TEXT 01.07.04 11:06:05 ZweitKFZ nit 30% starten					
11:05 Dauerwerbesendung					
Wimbledon: Williams mit Blitzsieg111					
EM Portugal schickt "Granje" heim203 Wimbledon Mayer-Siegeszug gestoppt114 f 1 R. Schumacher droht Saison-Rus131 Wimbledon Blitzsigg für S. Williams 113 HD Mer soll DF8-Teamchef werden?245					
Top News101 Motorsport130 US Sport135 DSF-SNS-Dienst195 B30 XXX Kontakte Live SN ->> 790 XXX-Kontakt mit Fotos >>>>> 706/707					
	Tip: Fotos von Lesben >>> 807				
	Close				
P+/ P-	Go to next/ previous page.				
F+/ F-	Go to next/ previous 10 pages.				
M+/ M-	Go to next/ previous 100 pages.				
н	Back to default setting				
s	Show subtitle				

General setting function :

- a. Full screen function- when the function is selected, the play window will be enlarged to the full screen.
- b. OSD function-display the selected command or function on the lower right corner of the screen for several seconds.
- c. Splash item- If this feature is selected, the screen will show a static picture when radio channel is playing.



4.5 Introduction of remote control function



When using the remote control, always aim directly to the top side (logo side) of the DVB-Tstick. The maximum distance should not exceed 3 metres.



Chapter 5: Trouble Shooting

This Chapter will help you to resolve the problems which you may encounter during the installation and operation.

1. Freecom DVB-T Stick does not work properly

a. Driver installation might not complete. Click "**Device Manager**" from **Hardware** tab. Find "**Sound, video and game controllers**" category and you may see "**Digital TV Receiver**" on the list. If you do not see it. Please go back and install the drivers again.

2. Windows cannot find Freecom DVB-T Stick

- a. Check if Freecom DVB-T Stick is connected to your PC.
- b.Before you launch Freecom DVB-T Stick, please wait for at least 3 seconds when device is just plugged into the USB interface.
- c. Try to restart operation system.
- d.Run "Add/Remove Hardware Device" from Windows "control Panel" to install the correct drivers.
- e. Unplug the Freecom DVB-T Stick, then plug it again. Please note that the interval between plug and unplug should be at least 3 seconds.
- f. Plug Freecom DVB-T Stick into another USB port of the PC.

3. Windows cannot find the driver of DTV USB Receiver

- a. Make sure the original CD-ROM is in the CD-ROM drive during the installation.
- b.Please indicate the correct directory where the drivers located for Windows if install the drivers by manual.

4. Set up Digital TV Receiver software

- a. Please run "Setup.exe" on the CD-ROM disc.
- b.Follow the instruction of setup wizard for software installation.

5. Can not see any program channel when auto scan.

- a. Check the cable connection between Freecom DVB-T Stick and the antenna.
- b.Exit the application. Unplug the Freecom DVB-T Stick, then plug it again. Note that the interval between plug and unplug should be at least 3 seconds. Launch Freecom DVB-T Stick and test again.



6. When error dialog box pops up or black screen appears

- a. Might be resulted from poor signal quality, Freecom DVB-T Stick doesn't receive enough data of program or does receive wrong data. Please check the connection between Freecom DVB-T Stick and the antenna.
- b.Please check the driver of VGA card or on board VGA chip.
- c. Please make sure your operation system is Microsoft Windows 2000(SP4)/ XP(SP1) or higher.

d. Please install Microsoft DirectX9.0 and Media Player 7.0 or higher version.

7. Video is playing but Audio is failed

a. Please check the sound card or the volume setting.

8. Failed to play program

- a. Make sure you have installed Sound Card Driver and the Sound Card is working.
- b. Please note that no matter if you want to listen to the audio or not, the sound card and its driver must be installed. Please check the signal quality and strength.

9. When playing program, audio is ok, but screen is blank. Why?

a. Please make sure your VGA driver and Microsoft DirectX9.0 were installed correctly.

10. DTV Mpeg2 video playback on Notebook PCs is not smooth

a. MPEG2 video playback consumes lots of CPU power. To get better performance, please make sure "Power-saving" mode of the Notebook PC is disabled and the CPU should run at its maximum frequency.

11. The Remote controller does not work. DTV USB Receiver does not react to the key presses.

a. DVB-T PenType Receiver window must be the "focus" window to receive the remote controller input. You might click on the caption of DVB-T PenType Receiver window, then try again.

Following information is only for EU-member states:



The use of the symbol indicates that this product may not be treated as household waste. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



WARRANTY (valid in Europe/Turkey only):

We thank you for purchasing this Freecom product and hope you will enjoy using it. In order to avoid unnecessary inconvenience on your part, we suggest reading the quick install guide, instruction manual and any additional electronic and or printed manuals. When problems occur we have a database with Frequently Asked Questions (FAQ) on our Freecom website (www.freecom.com), please check this site before you contact the helpdesk.

Your Guarantee

All Freecom products come with unlimited technical phone and web support. By this Guarantee, Freecom warrants their products to be free from defects in material and workmanship for a period listed below from the date of its original purchase. If during this period of guarantee the product proves defective due to improper materials or workmanship, Freecom will, without charge for labour or parts, at its sole discretion, repair or replace the product or its defective parts upon the terms and conditions set out below.

Conditions

This guarantee will be granted only when the original invoice or sales receipt (indicating the date of purchase, product and serial number) is presented together with the defective product and a Freecom RMA number received from the Freecom Website or given by a Freecom Service Center. Freecom reserves the right to refuse the free-of-charge guarantee services when the date of purchase of the product cannot be proven. This guarantee will not apply if the RMA number is missing, the serial number on the product has been altered, removed or made illegible.

This guarantee covers only the hardware components packaged with the product. This guarantee covers none of the following: (a) any consumable supplied with the product, such as media or batteries; (b) damage to or loss of any software programs, data or removable storage media; (c) any damage resulting from adaptations, changes or adjustments, which may have been made to the product, without the prior written consent of Freecom; (d) attempted repair by any party other than authorized by Freecom and (e) accidents, lightning, water, fire or any other such cause beyond the reasonable control of Freecom.

With respect to all services provided, Freecom is not responsible for any damage to or loss of any programs, data or other information stored on any media or any part of any product serviced. Freecom is not liable for the consequence of business loss in case of system failure. Be sure to exclude all parts not covered by this guarantee prior to returning the product to Freecom. Freecom is not liable for any loss or damage to these items. If during the repair of the product the contents of the hard drive are altered, deleted or in any way modified, Freecom is not liable whatsoever.

Repair parts and replacement products will be provided on an exchange basis and will be either new, equivalent to new or reconditioned. All replaced parts and products become the property of Freecom The period of guarantee for any product or part repaired or replaced in warranty shall be the balance of the original guarantee. Repairs or replacements on product or parts out of warranty carry **6 (six)** months guarantee.

All Freecom products come with unlimited free technical phone and web support.

Freecom Product	Warranty period	
Classic & Internal Series	1 year (Two years in Europe)	
FS & FX Series	1 year (Two years in Europe)	
FHD Series	1 year (Two years in Europe)	
FSG-xxx	1 year (Two years in Europe)	
MediaPlayer-xxx	1 year (Two years in Europe)	
DVB-T / USB Stick	1 year (Two years in Europe)	
USB Floppy Disk Drive	1 year (Two years in Europe)	
USBCard (Pro)	1 year (Two years in Europe)	
USB 2.0 CardReader	1 year (Two years in Europe)	
DAT & LTO Drives (retail)	3 years	
DAT-S Kits	2 years	