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DVB-T BOX, USB 2.0

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Chapter 1: Introduction

Introduction

The DVB-T USB 2.0 receiver is completely compatible with the DVB-T protocol and can receive digital TV via antenna so you can receive and enjoy digital transmissions on desktop and laptop PCs.

Installation is very easy and the device provides a user-friendly USB interface. No external power pack required.

Thanks to the elegant and compact design, you can enjoy the programmes in digital quality at home, the office or on the go.

It also operates as a digital video recorder. You can record your favourite programs on the hard drive either in real time or according to the time schedule.

Package contains:

- DVB-T USB 2.0 Box
- IR remote control
- Quick guide for installation
- External DVB - T antennae (passive)
- USB cable
- CD with CD KEY
- Case

Please make sure to keep the CD cover with the CD key; otherwise you can no longer reinstall the software.

Chapter 2: Note on Installation

The installation of the DVB-T USB 2.0 receiver is described in this chapter.

The chapter comprises:

- System requirements
- DTV application program and DirectX installation
- Hardware installation
- Software installation

2.1 System requirements

- IBM or IBM-compatible computer
- Operating system: Windows 2000(SP4)/ XP(SP2)
- CPU: 1000MHz or faster
- Memory: 256MB or more
- Sound card
- Microsoft DirectX9.0 or higher
- Microsoft Media Player 7.0 or higher

Warning! Before installing the hardware and the driver, you must install the DTV application software and the DirectX9.0 software.

Important information:

If the USB 2.0 DVB-T Box is used indoors or in remote areas, we recommend the following optimised DVB-T antennas by Hama to improve the reception: Item nos. 44293 or 44291.

We recommend installing an external antenna, if the DVB-T USB 2.0 receiver is used indoors.

2.2 Installing the DTV application program and DirectX

1. Insert the enclosed driver CD-ROM in the computer's CD-ROM drive. The DTV application software automatically starts the installation program. Follow the subsequent instructions. If the installation cannot be automatically started, consult the CD-ROM directory and double click the Setup.exe file to start the installation procedure.



4

2. Click **Next** to continue.



3. Read the license agreement and then select **I accept this contract**. Click **Next** to continue.



5

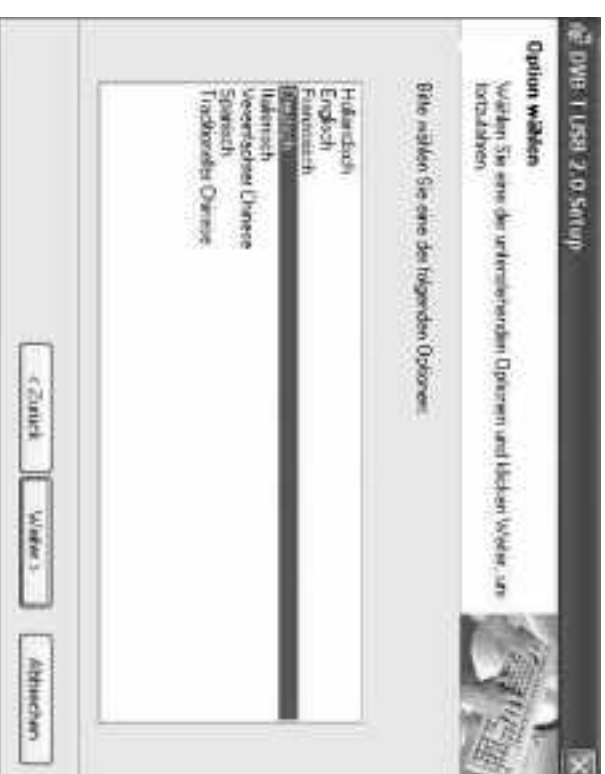
4. Enter the user information in the column. Click **Next** to continue.



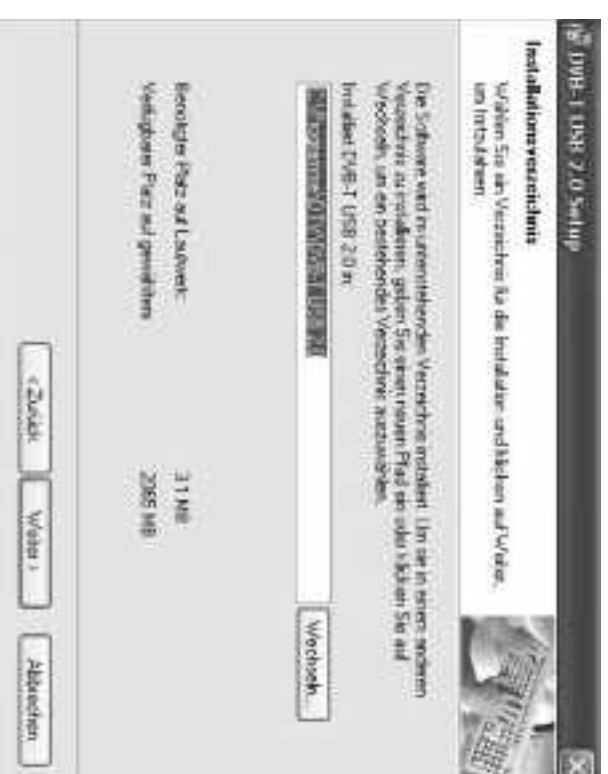
5. Enter the serial number of the product and click **Next** to continue.



6. Select a language, e.g. **German** and click **Next** to continue.



7. You can enter the installation path in this window. Click **Next** to continue.



8. The next step allows you to select the installation drive. Drive C:\ is used by default. Click **Next** to continue.



9. The next window shows a summary of your entries to allow you to check them. If you want to correct something, click -> **Back**. If not, click -> **next** to complete the installation process.



10. The following window shows that the installation process for the DTV application is started.



11. Click **Finish** and restart your computer to complete the installation of the DTV application.

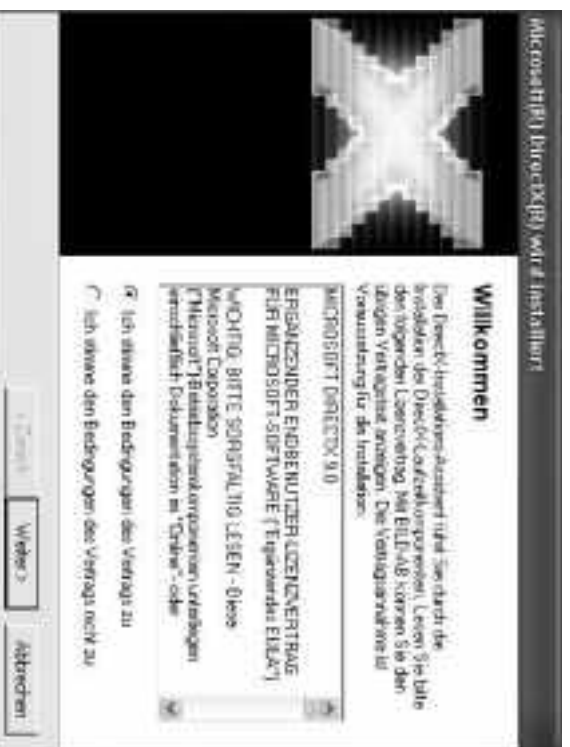


Note: If you do not restart your computer now, you must restart it later to complete the installation procedure.

12. Click **Finish** to exit the installation program. The DTV application has now been successfully installed.



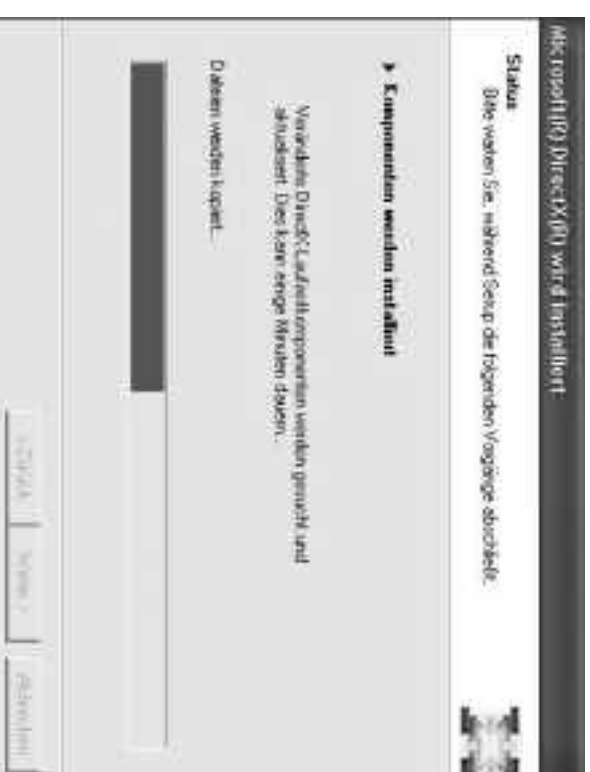
13. Once you have restarted the computer, you must install Windows DirectX9.0. Follow the subsequent instructions.
Read the license agreement and then select **I accept this contract** and then click **Next** to continue.



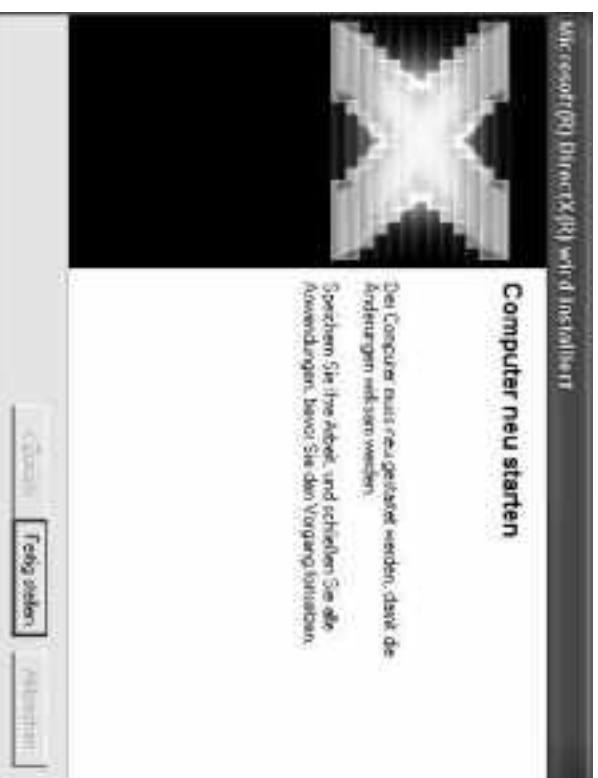
14. Click **Next** to continue.



15. 15. The window shows that the DirectX installation process is started. This may take some time. Please wait.



16. Close all applications and store your work before clicking **Finish**.



II. Connect the A end of the USB cable to the USB socket on your desktop or laptop PC.

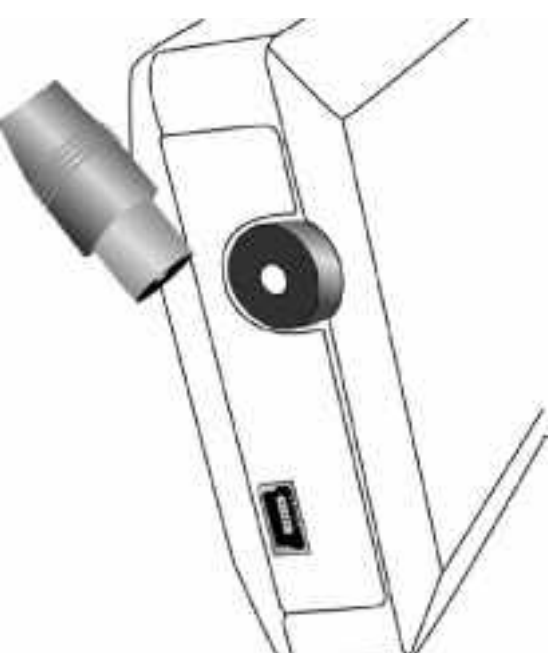
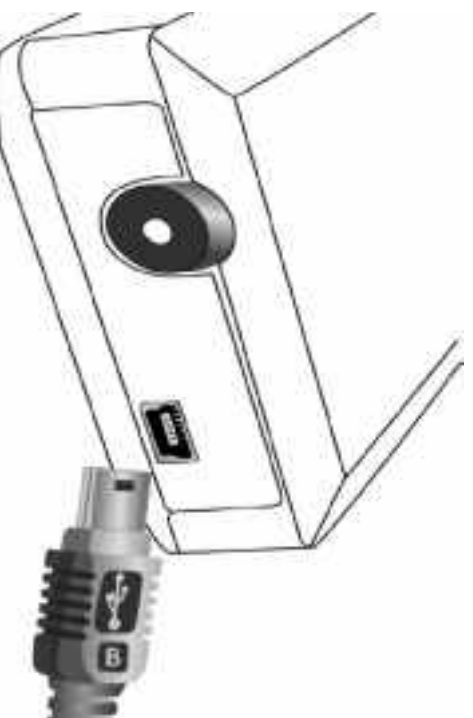


2. Connect the external passive DVB-T antenna.
 - I. Make sure that the cable is connected to the antenna.
 - II. Connect the antenna to the correct socket on the case of the DVB-T USB 2.0 receiver.

2.3 Hardware installation

Installing the DTB-T USB 2.0 receiver hardware.

1. Connect the USB cable.
 - I. Connect the B end of the USB cable to the USB socket on the case of the DVB-T USB 2.0 receiver.



Note: If you are installing the DVB-T USB 2.0 receiver on a laptop, ensure that the power saving function is deactivated, as it reduces CPU performance and can prevent the DVB-T USB 2.0 receiver from functioning properly.

2.4 Installing the driver

Follow the instructions below to install the driver from the installation CD-ROM of the DVB-T USB 2.0 receiver.

1. After you connect the DVB-T USB 2.0 receiver to the computer, the system recognizes the new USB hardware, and a window opens with the Found new hardware wizard. Select the option **Install software from a list or particular source (for advanced users)**, Click **Next** to continue.



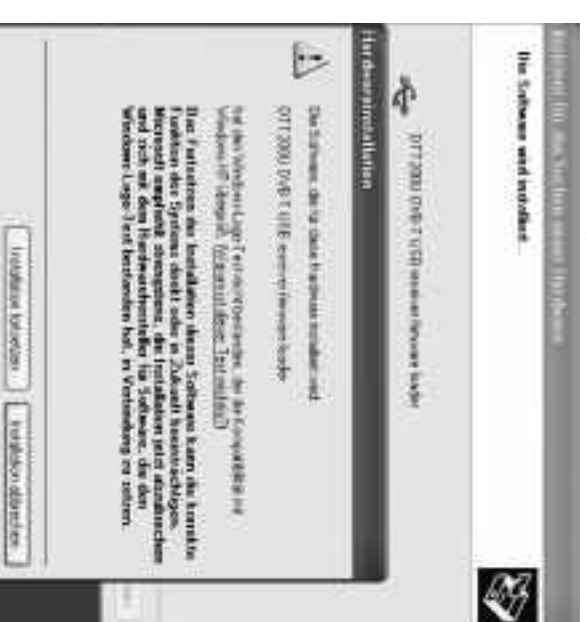
2. Select **Include this area in the search**.

Click **Browse** to search for the location of the driver in the CD-ROM directory. Select **DTT2000_WinXP** for Windows XP or **DTT2000_Win2000** for Windows 2000. Click **Next** to continue.



Note: This version does not support Win98SE/ME.

3. If a message is displayed informing you that the software has not passed the **Windows-Logo Test**, click the **Continue installation** button. The required drivers are then installed on the PC.



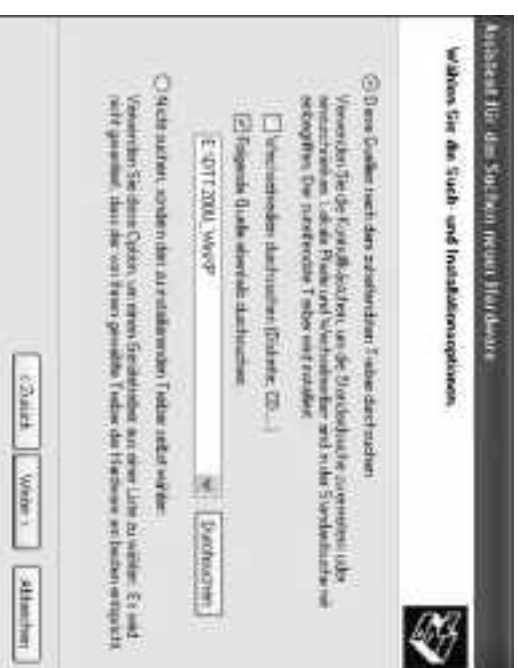
4. Click **Finish** to continue. The driver for the DVB-T USB 2.0 receiver firmware has been successfully installed.



5. The system recognizes the receiver as a new hardware component, and a window opens with the **Found new hardware wizard**. Select the option **Install software from a list or particular source (for advanced users)**. Click **Next** to continue.

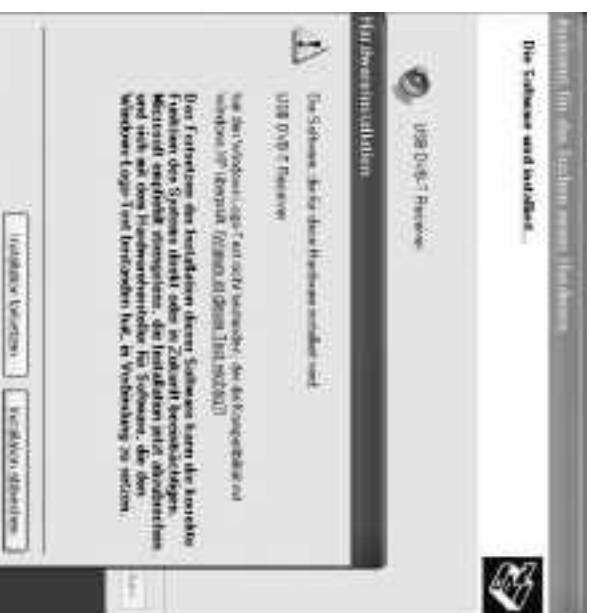


6. Select **Include this area in the search**. Click **Browse** to search for the location of the driver in the CD-ROM directory. Select **DTT2000_WinXP** for Windows XP or **DTT2000_Win2000** for Windows 2000. Click **Next** to continue.



Note: This version does not support Win98SE/ME.

7. If a message is displayed informing you that the software has not passed the **Windows-Logo Test**, click the **-> Continue installation** button. The required drivers are then installed on the PC.



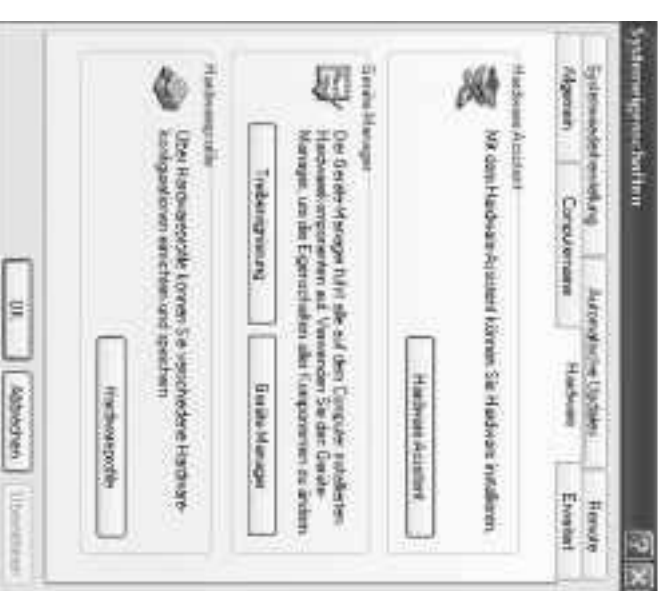
8. Click **Finish**. The DVB-T receiver has been successfully installed.



9. Check again whether the driver of the product is correctly installed. Click **Start** and then **Control Panel**. Then double click **System**.



10. Click **Device Manager**, and you will see the **DTV USB DVB-T Adapter** on the list. If this is not listed, you reinstall the driver.



Chapter 3 Installing the DTV/System Software Installation

The software for the DVB-T transmission is very powerful. You can enjoy the digital sound output and visual effects in high quality. The software not only allows you to receive the TV programmes, but also enables you to make digital video recordings (DVR) in real time. The Timeshift function ensures that you don't miss the best moments.

Once the software is installed, the DVB-T player.exe symbol appears. Simply move the cursor and double click this symbol to start the program.



Once the DTV software has started, you can use the control panel as follows:

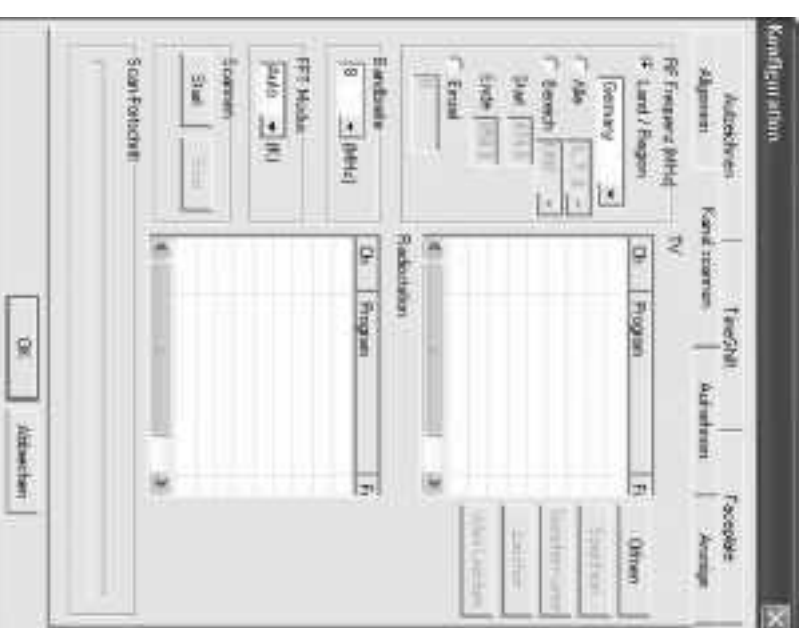


3.1 Configuring the DTV user program

Due to the various countries or regions, the DVB-T has its own frequencies. The following manual should help you in configuring the parameters in your region.

Scanning frequencies:

1. Click  on the control panel and then select Scan Channels.



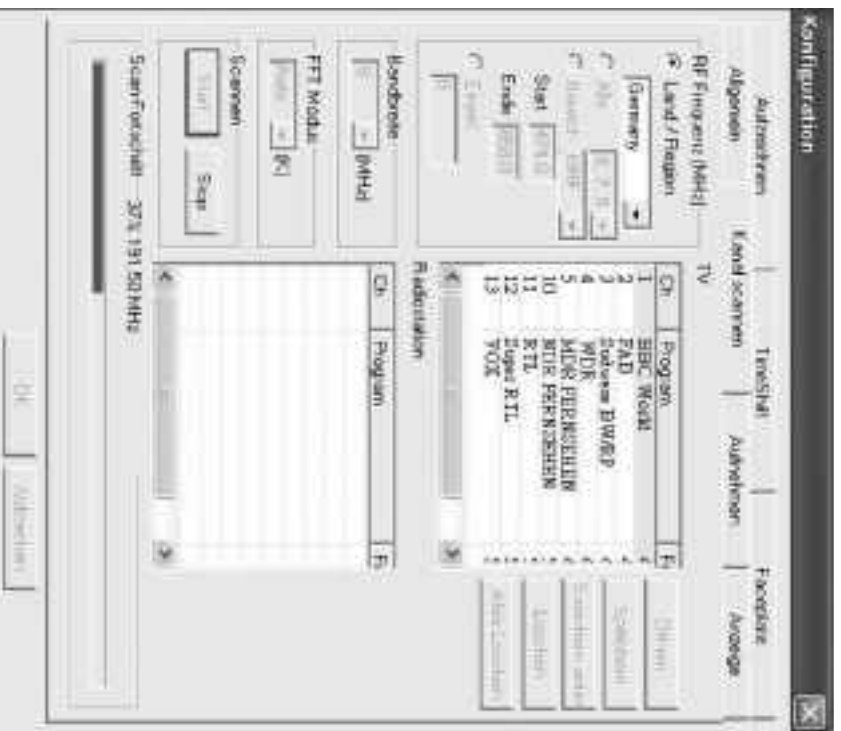
2. Select the RF frequency. You can select one of the following options:

- (1) **Land/Region:** Select your location.
- (2) **All:** If you do not find your location on the Land/Region list, select this option.
- (3) **Area:** You can determine your own frequency range. Select VHF or UHF and then enter its frequency range.
- (4) **Single:** If you know the exact frequency of a digital program, you can enter its frequency here.



3. Click **Start** to scan the frequency according to the selected RR frequency option.
4. Click **Save As** to store all of the scanned channels.
5. Click **OK** to exit the control panel.

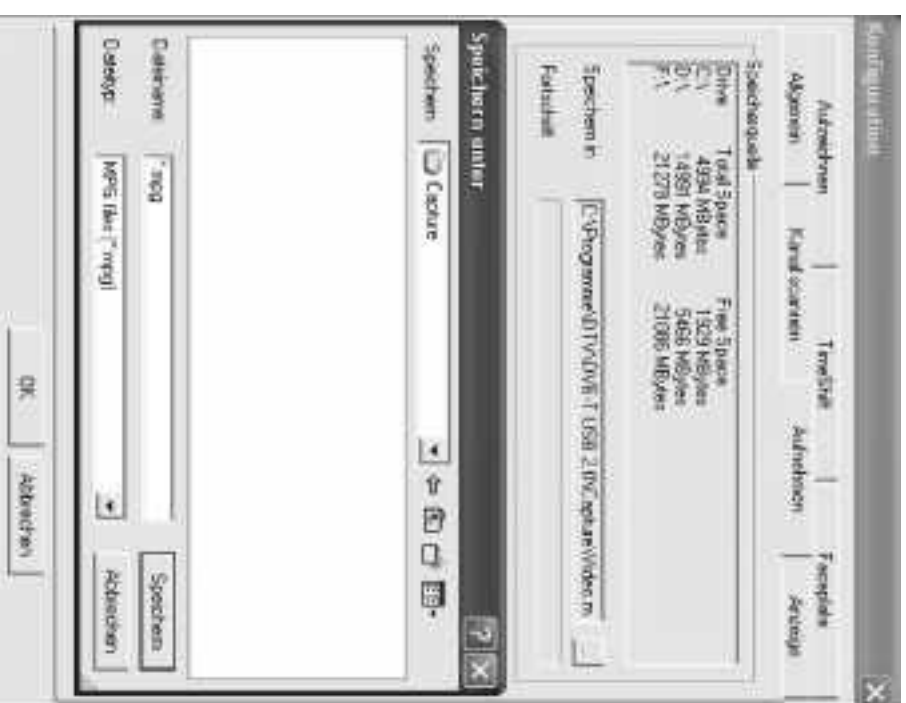
Note: The channel list is stored as a TBL file.




3.2 Setting the recording process

Two methods are available for recording: Recording in real time or according to the time schedule.

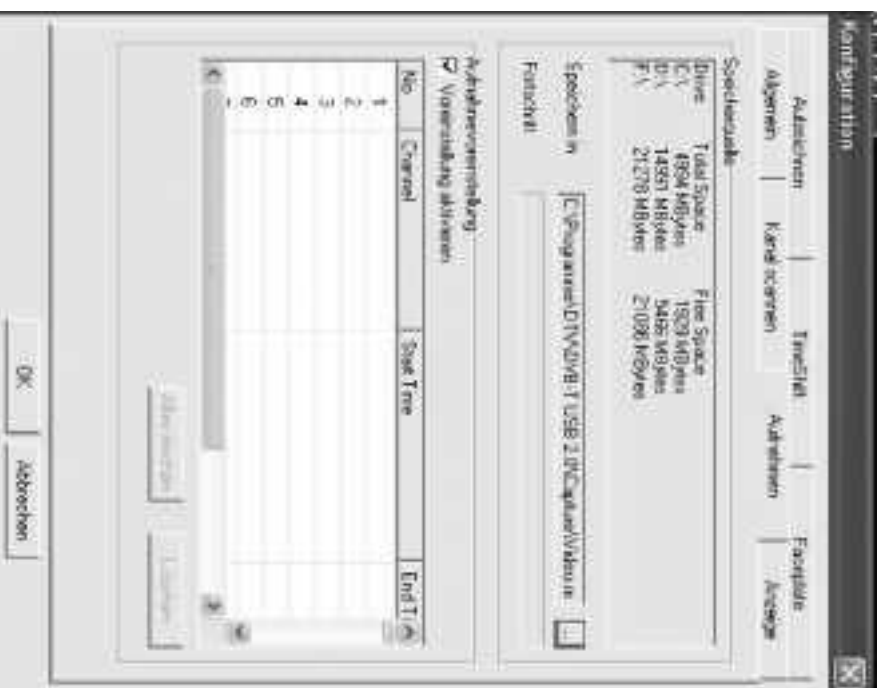
1. **Recording in real time:** When recording the program in real time mode, the recorded file is stored in the default target folder under C:\Programs\DTV\DVBT-USB 2.0\Capture\Video.mpg. To store this program file at another location, you can create the path as desired.



Once you have carried out the above setting, click  on the control panel, if you would like to view the digital programs. When the recording starts, the clock is displayed in red on the left side of the control panel. To stop the recording, click .



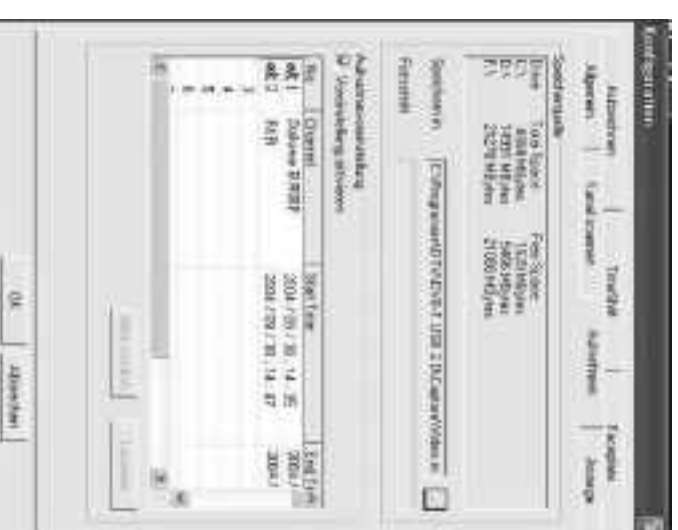
II. **Recording according to the time schedule:** Select **Setup** and the recording option. Then select **Activate Default**. Double click Channel in the default recording section.



When the Recording Input window appears, select the channel and enter the start time and end time of the recording. Click **OK** to continue.



Once the recording ends, the **ok** menu is displayed as follows.

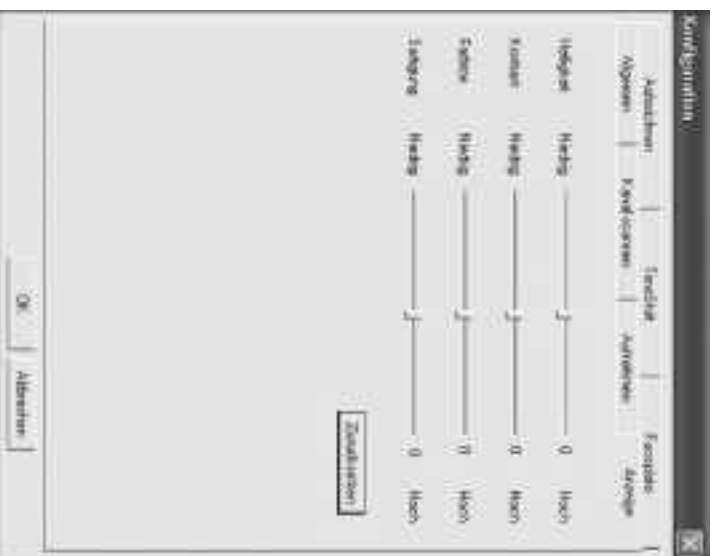


Note: You cannot simultaneously record two programs that have different frequencies.

Note: Observe the capacity of recording device. A recording lasting for several hours can exceed the capacity of the hard drive.

3.3 Configuring the display

In the display configuration window, you can set the brightness, contrast and richness as desired. Move the mouse cursor to perform these settings. To reset the setting to the default setting, click **Reset**



3.4 Configuring the recording

You can record and store an image. When the TV program is displayed, click  and the image is recorded and stored. To find this image and open the image file, click  and the image is recorded and



3.5 Configuring the timeshift






















If you must leave in the middle of the program, you can start the timeshift function. Simply click **Play** when you return. The system plays the program starting from the time you left. The longest time shift is ten minutes.



Chapter 4: DTV Software Overview

4.1 Control panel

Symbol functions

Symbol	Function	Symbol	Function
	Full screen		Play
	Online help		Rewind, Fast-forward
	Previewing several channels		Stop
	Channel up and down		Pause
	Channel recall		Video recording
	Personal selection		Photo
	Timeshift		Mute
	Open saved file		Volume up
	Configuration		Volume down
	Electronic program guide		Radio transmission reception for DVB-T
	Online help		Teletext

4.2 Right-click menu and keyboard access

Right-click while the DTV application software is running and the menu appears with the functions and keyboard access as follows:

Function display	Quick link	Feature description
Function display		
Play	Input	Plays the program
Pause	Space	Interrupts playback
Stop	S	Stops playback
Record	R	Records the current program
Mute	M	Switches off the sound output
Fast-forward	F	Fast-forwards the current program
Rewind	B	Rewinds the current program
Next channel	N	Switches to the next program
Previous channel	P	Switches to the previous program
Channel recall	L	Switches to the previously selected channel
Personal selection	Ctrl+M	Opens menu with personal selection
Search several channels	Ctrl+H/W	Searches several channels (non-synchronised)
Language selection	Ctrl+L	Selects the language
Timeshift	T	Starts of stops the timeshift function
Photo	G	Records an individual image as a photo
Installation	E	Starts the installation function
Display control panel	O	Shows or hides the control panel
Picture size		Selects the picture size between 60%, 100%, 150%
Full screen	W	Switches to full screen or window
Volume up	+	Increases the volume
Volume down	-	Reduces volume
About	Ctrl+A	Displays the information about the DTV version
Help	H	Online help
Close	Ctrl+X	Closes the DTV program.

4.3 Functions

Clock

The clock is automatically set to the time of the host computer.


Channel title display

The current channel name is displayed on the control panel in the language set by the channel provider.


Video recording

To record videos, click . Recording can also be determined according to the time schedule on the Recording Configuration screen in the Properties menu.


Previewing several channels

To simultaneously preview several channels, click  on the control panel. To display the desired program, select the program and click Play.
Note: Previewing FTA-channels is only possible with the same transponder


Photo

Click  to record a still image of the program that you are currently viewing.

Teletext

The Teletext application is a simple teletext browser. To start this function, click  on the control panel. It only functions when the DVB-T USB 2.0 receiver is operating.


Electronic program guide (EPG)


Click  on the control panel, to enter the electronic program guide provided by the channel provider. The electronic program guide provides you with additional information about the transmitted programs.


4.4 Additional Functions


• **Mute display:** when you click Mute, the  symbol illuminates on the control panel.

(Warning! This selection partially affects the quality and the functions. Do not use this function under normal conditions. We recommend that you switch off this function after updating the RF information.)

• **Recording display:** When the recording starts in real time or according to the time schedule, the  symbol is displayed in red on the control panel.

• **Display source:** When playing the program via the antenna, the control panel displays its source as follows:
 If it displays the recorded or selected image, the control panel displays the file names or status as follows


• **Volume display:** When you set the volume, the volume Symbol  changes accordingly.

• **Electronic program guide menu:** To enter the program menu, select  on the control panel. You then receive information about the channel programs such as the program schedule. (This function depends on whether it is provided by the channel provider or not.)

General setting function:

- Full screen function - when you select this function, the Play window is maximised on the entire screen.
- OSD function - displays the selected command and the selected function for several seconds in the right-hand lower corner of the screen.
- Mobile mode - when you select the Mobile mode, the reception quality improves while the receiver moves.

But this requires a lot of power. Therefore, we do not recommend this when the batteries in the system are insufficiently charged.

Chapter 5: Troubleshooting

This chapter should help you in remedying faults that can occur during installation and operation.

1. The DVB-T USB 2.0 receiver does not function properly.

Check whether the driver is correctly installed. You can check this in the driver installation in the Device Manager under Control Panel. In the device category, a device with the designation DTV USB Receiver (DTV USB receiver) must be present. If this is not the case, remove the USB Box, connect it to the USB port, follow the steps and reinstall the driver.

2. Windows cannot find the DVB-T USB 2.0 receiver.

- Check whether the DVB-T USB 2.0 receiver has been properly connected to the USB port.
- After connecting the DVB-T USB 2.0 receiver to the USB port, wait at least 3 seconds before starting the DVB-T USB 2.0 receiver.
- Restart the operating system.
- Select Add/Remove Hardware Device under Control Panel of Windows to install the correct driver.
- Disconnect the USB box and reconnect it. Make sure to wait 3 seconds between disconnecting and reconnecting the USB box.
- Connect the DVB-T USB 2.0 receiver to another USB port on the PC .

3. Windows cannot find the driver for the DVB-T USB 2.0 receiver.

Make sure that the supplied driver has been placed into the CD-ROM drive during the installation. Enter the correct directory in which the driver is located, if you manually perform the installation process.

4. Installing the DTB-T USB 2.0 receiver software.

Select setup.exe on the CD-ROM.
Follow the instructions of the installation wizard to install the software.

5. No channel is found during the auto scan.

Check the cable connection between the DVB-T USB 2.0 receiver and the antenna.
Make sure that the cable is properly connected to the card connection.
Close the DTV program, disconnect the DVB-T USB 2.0 box and reconnect it. Make sure to wait 3 seconds between disconnecting and reconnecting the USB box. Restart the DTV program.

6. Error messages or blank screen

This can be the result of poor signal quality. The DVB-T USB 2.0 receiver does not receive sufficient program data or receives the wrong data. Check the connection between the DVB-T USB 2.0 receiver and the antenna.
Check the VGA card driver or the VGA chip on the printed circuit board.
Make sure it can operate with the Microsoft Windows 2000/XP operating system.
Install Microsoft DirectX9.0 and Media Player 7.0 or a higher version.

7. The video is playing, but there is no sound

Check the soundcard or the volume setting.

8. I cannot play the program

Make sure that installed the soundcard driver and the soundcard functions.
Please note that the soundcard and its driver must be installed, regardless of whether or not you need to activate the sound.
Check the signal quality and signal strength.

9. The sound is ok but the screen is blank during playback.

Make sure that the VGA driver and Microsoft DirectX8.1 have been properly installed.

10. The DVB-T MPEG2 video on the laptop is stuttering during playback.

Playing the DVB-T MPEG2 video consumes too much power. To improve performance, ensure that the Energy-saving mode of the laptop is deactivated so that the CPU can be operated at its maximum frequency.

11. The remote control does not work. The DVB-T USB 2.0 receiver does not respond when I press the remote control buttons.

Der Empfänger des DVB-T USB 2.0-Box muß Sichtkontakt zur Fernbedienung haben, damit das Gerät die Kommandos vom Fernbedienungsgerät empfangen kann.

Note:

- Depending on the location, the digital DVB-T antenna can be affected by objects and the weather. This can cause poor signal quality. We recommend installing an antenna on the roof for indoor reception.
- Although this product can be moved, it should not be moved at high speeds. Check the other associated products for these requirements.
- If you use the recording timer, real time recording or timeshift function, make sure there is sufficient space on the hard drive to save the amount of data.
- To ensure that the device operates properly, please follow the instructions in the user manual and the installation instructions. Improper use can result in instability or cause the system to crash.

We reserve the right to expand or delete the application or its functions. All newly issued drivers and applications are listed on our web site. We are not responsible for further notification.