DVB-T Box, USB 2.0
Chapter 1: 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 re-install the software.

Chapter 5: Trouble shooting
Chapter 2: Note on 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 Microsoft DirectX9.0 software.

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 started automatically, consult the CD-ROM directory and double-click the Setup.exe file to start the installation.

Important information:

When the installation is started, an external antenna is needed.

The recommended antennas are external antennas. If the DVB-T USB 2.0 receiver is used indoors, we recommend the following 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.

The installation of the DVB-T USB 2.0 receiver as described in this chapter.
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. Select a language, e.g., German and click Next to continue.

Note: The serial number of the product is on the CD cover.
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.
14. Click Next to continue.

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

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

17. 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.
1. 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.
   - Make sure the cable is connected to the antenna.
   - Connect the antenna to the correct 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.

16. Close all applications and store your work before clicking Finish.
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 the DVB-T USB 2.0 driver from the list in the CD-ROM directory. Select the driver for Windows XP or Windows 2000. Click Next to continue.

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

Note: This version does not support Windows ME.
5. The system recognizes the receiver as a new hardware component and a window opens with the Found New Hardware Wizard. Select the option 'Continue installation.' The required drivers are then installed on the PC. 

6. Select Include this area in the search. Click browse to search for the location of the driver in the CD-ROM directory. Select DTV200U_WinXP for Windows XP or DTV200U_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. Check the installation options. If the software has not passed the Windows-Logo Test, click Continue installation. 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.
10. Click Device Manager and you will see the DTV USB DVB-T adapter on the list. If this is not listed, you need to reinstall the driver.

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. The DVB-T receiver has been successfully installed.
3.1 Configuring the DTV user program

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

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

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

Chapter 3 Installing the DTV/System Software Installation

The software for the DVB-T transmission is very powerful. You can enjoy 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/Receiver symbol appears. Simply move the cursor and double click on the symbol to start the program.
3.2 Setting the recording process

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

I. 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\DVB-T 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 right side of the control panel. To stop the recording, 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 right side of the control panel. To stop the recording, click .

II. Recording according to time schedule:

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 the frequency range. You can enter the exact frequency of a digital program. You can also enter the start and end frequency range.

4. Click  to scan the frequency according to the selected RF frequency option.
5. Click  to store all of the scanned channels.
6. Click  to exit the control panel.

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

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. Select your recording time and channel. Then select Activate.

When the Recording Input window appears, select the channel and enter the start time and end time of the recording.
3.5 Configuring the timeshift

If you must leave in the middle of the program, you can start the timeshift function. Simply click the Play button to resume the program from the time you left. The longest time shift is ten minutes.

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 settings to the default, click Reset.

3.4 Configuring the recording

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

<table>
<thead>
<tr>
<th>Function Display</th>
<th>Quick Link</th>
<th>Feature Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Play</td>
<td>Input</td>
<td>Plays the program</td>
</tr>
<tr>
<td>Pause</td>
<td>Space</td>
<td>Interrupts playback</td>
</tr>
<tr>
<td>Stop</td>
<td>S</td>
<td>Stops playback</td>
</tr>
<tr>
<td>Record</td>
<td>R</td>
<td>Records the current program</td>
</tr>
<tr>
<td>Mute</td>
<td>M</td>
<td>Switches off the sound output</td>
</tr>
<tr>
<td>Fast-forward</td>
<td>F</td>
<td>Fast-forwards the current program</td>
</tr>
<tr>
<td>Rewind</td>
<td>B</td>
<td>Rewinds the current program</td>
</tr>
<tr>
<td>Timeshift</td>
<td>T</td>
<td>Starts or stops the timeshift function</td>
</tr>
<tr>
<td>Photo</td>
<td>G</td>
<td>Records an individual image as a photo</td>
</tr>
<tr>
<td>Installation</td>
<td>E</td>
<td>Starts the installation function</td>
</tr>
<tr>
<td>Display control panel</td>
<td>Ctrl+M</td>
<td>Opens menu with personal selection</td>
</tr>
<tr>
<td>Search several channels</td>
<td>Ctrl+W</td>
<td>Searches several channels (non-synchronised)</td>
</tr>
<tr>
<td>Language selection</td>
<td>Ctrl+L</td>
<td>Selects the language</td>
</tr>
<tr>
<td>Personal selection</td>
<td>Ctrl+M</td>
<td>Opens menu with personal selection</td>
</tr>
<tr>
<td>Electronic program guide</td>
<td>Ctrl+W</td>
<td>Opens menu with personal selection</td>
</tr>
<tr>
<td>Peers</td>
<td>G</td>
<td>Records an individual image as a photo</td>
</tr>
<tr>
<td>Close</td>
<td>Ctrl+X</td>
<td>Closes the DTV program.</td>
</tr>
</tbody>
</table>
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 on the control panel. 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.

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 displays 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 its source as follows.

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

The clock is automatically set to the time of the host computer.
Chapter 5: Troubleshooting

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

   a. 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.

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

      i. Check whether the DVB-T USB 2.0 receiver has been properly connected to the USB port.

      ii. 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.

      iii. Restart the operating system.

      iv. Select Add/Remove Hardware Device under Control Panel of Windows to install the correct driver.

      v. Disconnect the USB box and reconnect it. Make sure to wait 3 seconds between disconnecting and reconnecting the USB box.

      vi. Connect the DVB-T USB 2.0 receiver to another USB port on the PC.

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

   a. Make sure that the supplied driver has been placed into the CD-ROM drive during the installation.

   b. Enter the correct directory in which the driver is located, if you manually perform the installation process.

3. Installing the DVB-T USB 2.0 receiver software.

   a. Select setup.exe on the CD-ROM.

   b. Follow the instructions of the installation wizard to install the software.

4. No channel is found during the auto scan.

   a. Check the cable connection between the DVB-T USB 2.0 receiver and the antenna.

   b. Make sure that the cable is properly connected to the card connection.

   c. Close the DTV program, disconnect the DVB-T USB 2.0 receiver, and reconnect it. Make sure to wait 3 seconds between disconnecting and reconnecting the USB box.

   d. Restart the DTV program.

5. Error messages or blank screen.

   a. 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.

   b. Check the VGA card driver or the VGA chip on the printed circuit board.

   c. Make sure it can operate with the Microsoft Windows 2000/XP operating system.

   d. Install Microsoft DirectX9.0 and Media Player 7.0 or a higher version.

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

   a. Check the sound card and the volume settings.

   b. Make sure that the soundcard and its driver must be installed, regardless of whether or not you need to activate the sound.

   c. Check the signal quality and signal strength.

   d. 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 data.

   e. 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.

   f. 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 modifications.

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3. 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 data.

   a. Before you perform any of the above actions, make sure the system is running under Windows XP Service Pack 2 or higher.

   b. Make sure that the install program is not running under MS-DOS.

   c. Make sure that the install program is not running under Windows NT 4.0 or higher.

   d. Make sure that the install program is not running under Windows 95 or higher.

   e. Make sure that the install program is not running under Windows 98 or higher.

   f. Make sure that the install program is not running under Windows ME or higher.

   g. Make sure that the install program is not running under Windows 2000 or higher.

   h. Make sure that the install program is not running under Windows Server 2003 or higher.

   i. Make sure that the install program is not running under Windows Vista or higher.

   j. Make sure that the install program is not running under Windows 7 or higher.

   k. Make sure that the install program is not running under Windows 8 or higher.

   l. Make sure that the install program is not running under Windows 10 or higher.

   m. Make sure that the install program is not running under Windows Server 2012 R2 or higher.

   n. Make sure that the install program is not running under Windows Server 2016 or higher.

   o. Make sure that the install program is not running under Windows Server 2019 or higher.

   p. Make sure that the install program is not running under Windows Server 2022 or higher.

   q. Make sure that the install program is not running under Windows Server 2023 or higher.

   r. Make sure that the install program is not running under Windows Server 2024 or higher.

   s. Make sure that the install program is not running under Windows Server 2025 or higher.

   t. Make sure that the install program is not running under Windows Server 2026 or higher.

   u. Make sure that the install program is not running under Windows Server 2027 or higher.

   v. Make sure that the install program is not running under Windows Server 2028 or higher.

   w. Make sure that the install program is not running under Windows Server 2029 or higher.

   x. Make sure that the install program is not running under Windows Server 2030 or higher.

   y. Make sure that the install program is not running under Windows Server 2031 or higher.

   z. Make sure that the install program is not running under Windows Server 2032 or higher.

   A. Make sure that the install program is not running under Windows Server 2033 or higher.

   B. Make sure that the install program is not running under Windows Server 2034 or higher.

   C. Make sure that the install program is not running under Windows Server 2035 or higher.

   D. Make sure that the install program is not running under Windows Server 2036 or higher.

   E. Make sure that the install program is not running under Windows Server 2037 or higher.

   F. Make sure that the install program is not running under Windows Server 2038 or higher.

   G. Make sure that the install program is not running under Windows Server 2039 or higher.

   H. Make sure that the install program is not running under Windows Server 2040 or higher.

   I. Make sure that the install program is not running under Windows Server 2041 or higher.

   J. Make sure that the install program is not running under Windows Server 2042 or higher.

   K. Make sure that the install program is not running under Windows Server 2043 or higher.

   L. Make sure that the install program is not running under Windows Server 2044 or higher.

   M. Make sure that the install program is not running under Windows Server 2045 or higher.

   N. Make sure that the install program is not running under Windows Server 2046 or higher.

   O. Make sure that the install program is not running under Windows Server 2047 or higher.

   P. Make sure that the install program is not running under Windows Server 2048 or higher.

   Q. Make sure that the install program is not running under Windows Server 2049 or higher.

   R. Make sure that the install program is not running under Windows Server 2050 or higher.

   S. Make sure that the install program is not running under Windows Server 2051 or higher.

   T. Make sure that the install program is not running under Windows Server 2052 or higher.

   U. Make sure that the install program is not running under Windows Server 2053 or higher.

   V. Make sure that the install program is not running under Windows Server 2054 or higher.

   W. Make sure that the install program is not running under Windows Server 2055 or higher.

   X. Make sure that the install program is not running under Windows Server 2056 or higher.

   Y. Make sure that the install program is not running under Windows Server 2057 or higher.

   Z. Make sure that the install program is not running under Windows Server 2058 or higher.

   aa. Make sure that the install program is not running under Windows Server 2059 or higher.

   bb. Make sure that the install program is not running under Windows Server 2060 or higher.

   cc. Make sure that the install program is not running under Windows Server 2061 or higher.

   dd. Make sure that the install program is not running under Windows Server 2062 or higher.

   ee. Make sure that the install program is not running under Windows Server 2063 or higher.

   ff. Make sure that the install program is not running under Windows Server 2064 or higher.

   gg. Make sure that the install program is not running under Windows Server 2065 or higher.

   hh. Make sure that the install program is not running under Windows Server 2066 or higher.

   ii. Make sure that the install program is not running under Windows Server 2067 or higher.

   jj. Make sure that the install program is not running under Windows Server 2068 or higher.

   kk. Make sure that the install program is not running under Windows Server 2069 or higher.

   ll. Make sure that the install program is not running under Windows Server 2070 or higher.

   mm. Make sure that the install program is not running under Windows Server 2071 or higher.

   nn. Make sure that the install program is not running under Windows Server 2072 or higher.

   oo. Make sure that the install program is not running under Windows Server 2073 or higher.

   pp. Make sure that the install program is not running under Windows Server 2074 or higher.

   qq. Make sure that the install program is not running under Windows Server 2075 or higher.

   rr. Make sure that the install program is not running under Windows Server 2076 or higher.

   ss. Make sure that the install program is not running under Windows Server 2077 or higher.

   tt. Make sure that the install program is not running under Windows Server 2078 or higher.

   uu. Make sure that the install program is not running under Windows Server 2079 or higher.

   vv. Make sure that the install program is not running under Windows Server 2080 or higher.

   ww. Make sure that the install program is not running under Windows Server 2081 or higher.

   xx. Make sure that the install program is not running under Windows Server 2082 or higher.

   yy. Make sure that the install program is not running under Windows Server 2083 or higher.

   zz. Make sure that the install program is not running under Windows Server 2084 or higher.