# ReceiverSystem

## Cinergy T²

## TV Tuner & Video Recorder

Hardware and driver installation

English manual

Version: 16.11.04

CE declaration

We:

TerraTec Electronic GmbH, Herrenpfad 38, D-41334 Nettetal, Germany

hereby declare that the product:

ReceiverSystem TerraTec Cinergy T²

to which this declaration refers is in compliance with the following standards or standardizing documents:

1. EN 55022 Class B

2. EN 55024

The following are the stipulated operating and environmental conditions for said compliance:

residential, business and commercial environments and small-company environments.

This declaration is based on:

Test report(s) of the EMC testing laboratory

## Contents

## Welcome!

We're pleased that you've chosen a TerraTec receiver system and would like to congratulate you on this decision. With the TerraTec Cinergy T², you've purchased a sophisticated product representing the state of the art of PC/TV technology. We're convinced that our product will prove extremely useful to you and provide you with a great deal of entertainment, both at home and on the road. Before we go into detail, here's a foretaste of what you can expect:

### *Digital TV in your pocket.*

With the Cinergy T², you can receive all free digital terrestrial TV broadcasts (DVB-T) on your desktop or laptop PC using the included antenna. The Cinergy T² connects directly to a USB 2.0 port and also draws its power from the port. A separate power adapter or batteries are not required.

### *Totally digital.*

The Cinergy T² receives its signals from an antenna as always. But digital TV has so much more to offer. DVD picture quality, loss-free recording in MPEG-2 format and timeshifting—with which you can simply pause live programs and restart them later where you left off—take you to the TV of the future. Enhance your TV experience with additional tasty features: the electronic program guide delivers up-to-date program information for the near future and lets you plan your recordings with a single click. All received teletext pages are stored in memory for lightning-fast navigation with your mouse.

### *Totally manageable.*

Digital recordings are a great thing, but sooner or later they can fill even the largest hard drive. Manage them with Ulead MovieFactory 3 TV: remove annoying advertising blocks from your recordings and archive them on DVD.

### *Totally convenient.*

Control the onscreen menu of the Cinergy T² and a wide range of other multimedia applications from the comfort of your sofa using the included remote control.

We hope you enjoy your Cinergy T² and would like to suggest that you browse this hopefully entertaining manual when you get the chance. In addition to the important information about its technology, we have outlined a number of typical applications wherever appropriate. We're convinced that even experienced users will profit from this guide.

Thanks for your attention—enjoy!

...your TerraTec Team

## *Key features.*

- Digital TV reception (DVB-T)

- Loss-free digital recording (MPEG-2 format)

- Timer-controlled recording and timeshifting

- EPG support/program information

- DVB teletext

- Power supply via USB

- USB 2.0 high-speed interface, 480 Mbps

- Infrared remote control

- 2 years warranty

## *System requirements.*

- Pentium III / AMD Athlon 1.0 GHz or higher

- 128 MB RAM

- 1 free USB 2.0 interface

- Audio hardware with DirectX support

- CD-ROM drive (to install drivers/software)

- AGP graphics card with DirectDraw drivers and video overlay support

- Terrestrial digital reception (DVB-T)

- Windows 2000 with Service Pack 4 or Windows XP with Service Pack 1

If your PC and/or equipment do not meet these requirements, the Cinergy T² will not operate correctly.

## *System recommendations.*

- Intel Pentium 4 / AMD Athlon XP 1.4 GHz or higher

- 256 MB RAM

- 1 free USB 2.0 interface

- Audio hardware with DirectX support

- CD-R/DVD-R drive to create video CDs/DVDs

- AGP graphics card with DirectDraw drivers and video overlay support

- Terrestrial digital reception (DVB-T)

- Windows 2000 with Service Pack 4 or Windows XP with Service Pack 2
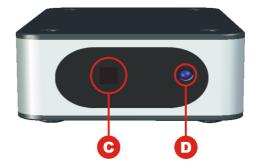
## Scope of delivery.

- TerraTec Cinergy T²

- USB 2.0 cable (mini USB – USB, 0.6 m)

- Rod antenna with magnetic base

- Infrared remote control including batteries

- Installation & software CD-ROM

- Online manual (on CD-ROM)

- Service request form

- Registration documents

## *The hardware at a glance.*

The hardware and connections of the Cinergy T².



A. Mini USB 2.0 connection

B. TV antenna input

C. Infrared receiver

D. Activity LED

### *TV antenna input*

Connect the antenna output of the included magnetic-base rod antenna or another DVB-T-compatible antenna system to this input.

### *Mini USB 2.0 connection*

Use this socket and the included USB cable to connect the device to your PC.

### *Activity LED*

The activity LED indicates that the application is requesting data from the Cinergy T² via the USB connection. A good sign.

### *Infrared receiver*

The integrated infrared receiver is used for communication with the remote control. For further information on the remote control and its software, please refer to the documentation (Auto-starter → Documentation → Software).

## Setting up the hardware and installing drivers.

The following sections describe how to connect your Cinergy T² to your computer and install the drivers. Connecting the included rod antenna is the final step of the installation.

### Connecting to the USB 2.0 port.

1. Connect the mini USB plug of the included cable to the USB socket of the Cinergy T².

2. Boot your computer and wait until the operating system has loaded completely.

3. Connect the other end of the USB cable to a free USB 2.0 port on your computer.

4. Continue with the installation of the correct drivers for your operating system.

### Installing the drivers in Windows 2000 (Service Pack 4)

If you have not already done so, place the enclosed installation CD into your CD-ROM drive.

A. Windows 2000 will recognize the new device and will launch the hardware installation wizard. Click "Next".

B. In the appearing dialog window, select the "Search for a suitable driver for my device (Recommended)" item. Click "Next".

C. Select the option "CD-ROM drives" and deselect all other sources. Click "Next".

D. Windows 2000 will automatically find the correct driver on the installation CD. Confirm by clicking "Next".

E. In the following dialog box, Windows will inform you that the digital signature was not found for the driver. Click "Continue".

F. Conclude the installation by clicking "Finish".

This completes the installation of the drivers and you can now start installing the application programs.

## *Installing the drivers in Windows XP (Service Pack 1)*

If you have not already done so, place the enclosed installation CD into your CD-ROM drive.

A.  Windows XP will recognize the new device and will launch the hardware installation wizard. Next, select "Install the software automatically [Recommended]" and click "Next".

B.  Windows XP will automatically find the correct driver on the installation CD.

C.  In the following dialog box, Windows XP will inform you that the driver did not pass the "Windows Logo test". Click "Continue".

D.  Conclude the installation by clicking "Finish".

This completes the installation of the drivers and you can now start installing the application programs.

## *Connecting the magnetic-base rod antenna*

Connect the antenna plug of the included magnetic-base rod antenna to the antenna input (B) of the Cinergy T².

**Antenna location**. Avoid setting the antenna up near sources of electromagnetic radiation. These include computers, TVs, microwave ovens and similar devices. Avoid the proximity of steel or reinforcing rods. Set the antenna up close to a window, positioning it as high as possible.

## *Remote control – inserting the batteries.*

Improper battery use can destroy the remote control unit. Please observe the following instructions:

*   Never mix old and new batteries.

*   Insert the batteries as indicated by the polarity markings in the battery compartment.

Please observe your local laws and environmental regulations when disposing of used batteries.

## *Appendix A – Frequently asked questions (FAQ).*

The FAQ can be accessed via the autostart menu of the included CD-ROM. If the autostart menu does not open automatically when you insert the software & installation CD, go to the CD-ROM drive and execute the `autorun.exe` file. Select the menu item "FAQ".

*Note: The current version of the FAQ is available at*
`http://supporten.terratec.net/.`

## *Appendix B – Technical data.*

**General information**

- USB 2.0 high-speed (480 Mbps), USB bus powered

- Driver support: Windows 2000 (SP4), Windows XP (SP1)

- Plug n' Play

- Power supply 5V DC (USB bus powered)

- Power consumption 480 mA (USB bus powered)

- Housing color: silver/black

- Dimensions: 74.5 x 50 x 23 mm

- 2 years warranty

**DVB-T tuner**

- VHF band III K5-K12 (174 MHz - 230 MHz)

- UHF band IV / V K21-K69 (470 MHz - 862 MHz)

- Input impedance: 75 ohms

- COFDM demodulation (QAM16/QAM64)

- PLL synthesizer technology

**Connections**

- Mini USB 2.0 socket

- RF antenna input (75 ohms input impedance)

**Infrared remote control**

- 37 buttons

- Battery power (2 AAA cells)

**Operating software**

- Personal video recorder (PVR)

  - Recording in MPEG2-TS format

  - Export to MPEG2-PS format

- Timeshifting

- Full-screen mode

- On-screen display (OSD)

- EPG (electronic program guide)

- Teletext with fast indexing and fast access

- Unlimited number of program memory slots

- Support for included remote control

- Multilingual manual (English, German, French, Italian, Spanish and Dutch)

**Additional software**

- Ulead DVD Movie Factory 3 TV

- Cyberlink PowerDVD 5.0

## *Appendix C – Service at TerraTec.*

"Rien ne va plus—Nothing's working" can happen to the best systems. If this happens to you, the TerraTec team is happy to offer its service and support.

**Hotline, Internet.**

In case of a serious problem—where you can neither solve the problem on your own nor with the guided help found in this manual, nor with the help of your dealer—please contact us directly.

If you have access to the Internet, please check our service and support at **http://supporten.terratec.net/** first. There you'll find the answers to frequently-asked questions (FAQ) and a form for e-mail support requests.

If you can't access our website, please check the service card that came with the product for country-specific helpline numbers with which you can contact our support team.

Regardless of whether you contact us by e-mail or phone, you must have the following information at hand:

- your registration number,
- this documentation.

In addition, it would be helpful to our technicians if the device is within reach during the phone call so that you can carry out our support tips directly. Please do not forget to write down the name of the respective support technician if you contact our Support Team. You will need this name if a defect is present and your device needs to be mailed to us.