

Cinergy Digital 2 Software

English manual

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Contents

Cinergy Digital 2 software	3
Installation.	3
Launching the software for the first time	4
Design and controls	7
On-screen display (OSD)	15
Main menu.	15
EPG—the electronic program guide	16
Info.....	18
Timeshifting	19
Recording, playing, exporting	21
Recording	21
Immediate recording	21
Timer-controlled recording—EPG-programmed.....	22
Timer-controlled recording—manually programmed.....	24
Playing, exporting, deleting	28
Teletext.....	29
Configuration	32
Configuration: Options.....	32
Configuration: Channel scan	34
Configuration: TV favorites, radio favorites.....	34
Configuration: Channel info	34
Configuration: About.....	34
Context menu.....	35
Setting up the antenna.....	36
Keyboard shortcuts	37

Cinergy Digital 2 software

...is your control center for digital television. The full range of functions and features—channel selection, timeshifting, recording and teletext—of your new TV hardware are united in the *Cinergy Digital 2 software*. It must be installed before you can get started, however.

Installation.

To install the *Cinergy Digital 2* software, select the appropriate item on 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 launch the **autorun.exe** file.

Note: we are continuously improving the Cinergy Digital 2 software, so please check our website from time to time for new versions featuring improved or extended functionality.

The current version of the Cinergy Digital 2 software is available at <http://www.terratec.com/> . Once you have downloaded the file, double-click it to start the installation.

The language selected for the installation will also be used in the *Cinergy Digital 2* application. It can be changed at any time, however. The *Cinergy Digital 2* icon will be present on your desktop if you accepted the defaults during the installation.

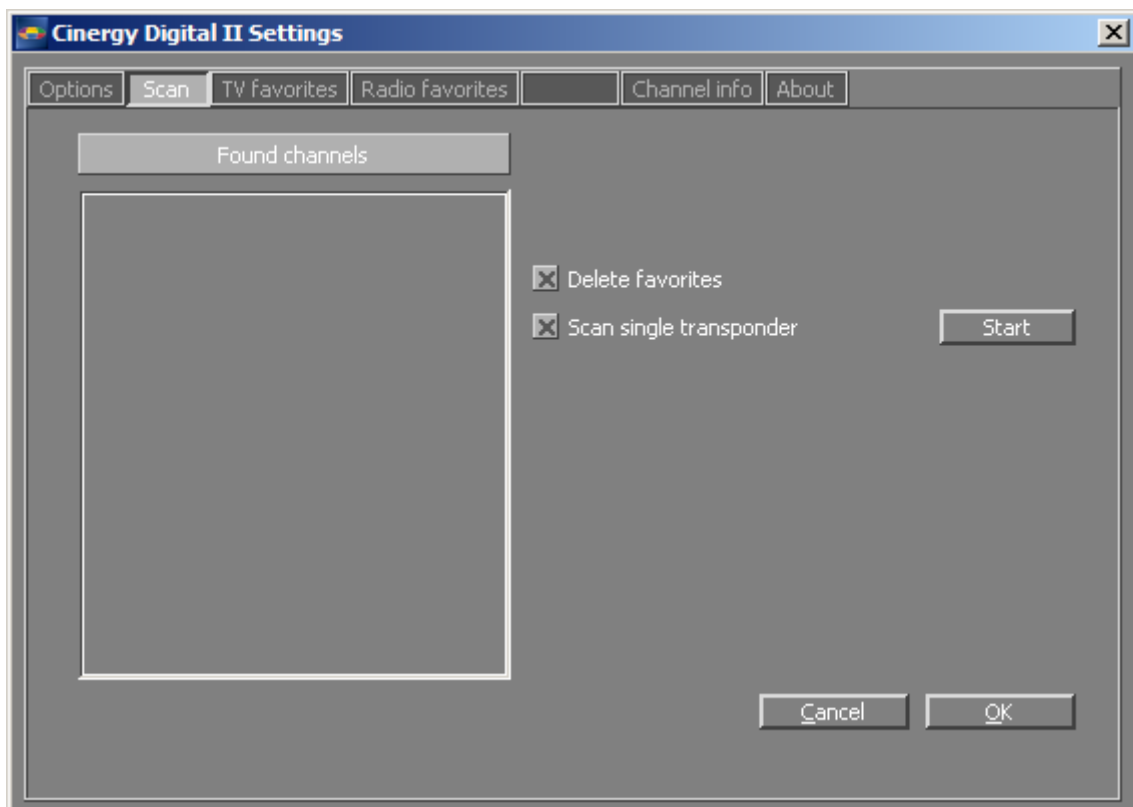
Launching the software for the first time

The automatic channel scan will open automatically the first time you start the *Cinergy Digital 2* application.

- Channel scan

Click “Start”. The automatic channel scan will enter its results in the “Found channels” window. Don't worry about the advanced options of the automatic channel scan at this point.

They will be explained later in the “**Configuration: Channel scan**” chapter.

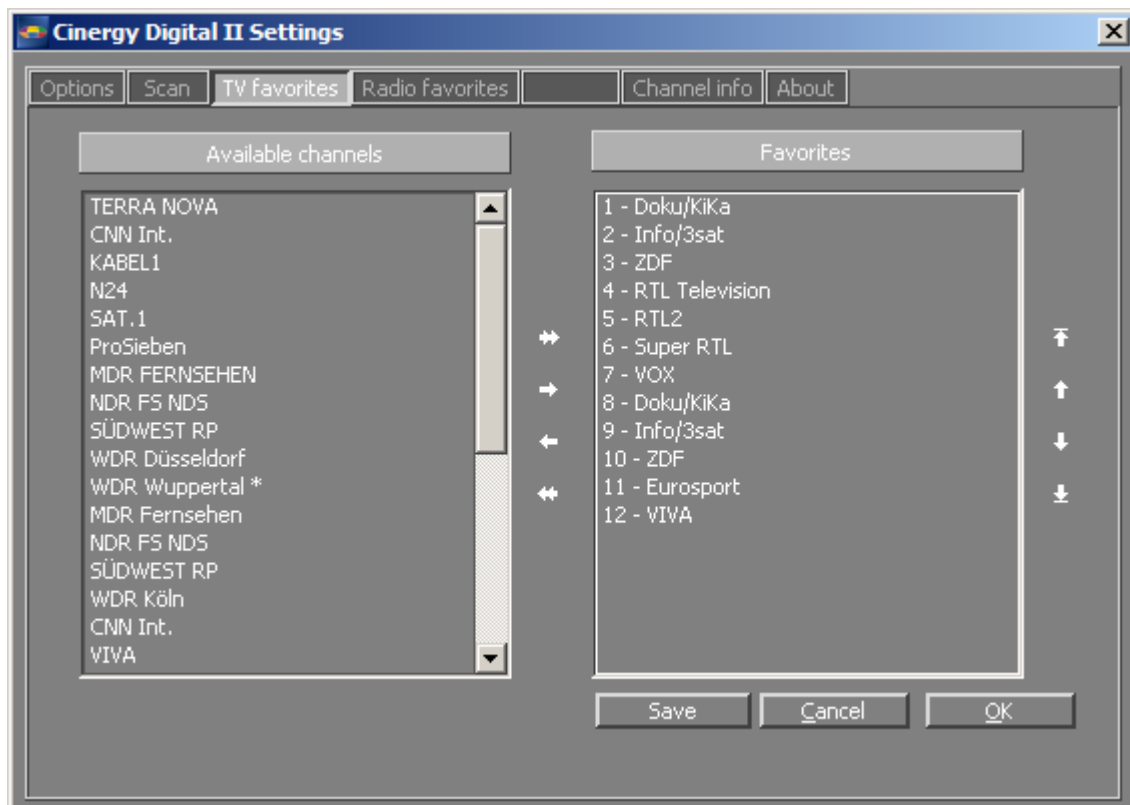


The channel scan.

- Adding the found stations to the Favorites list.

Click the “TV favorites” tab to transfer the found channels to your Favorites list. Use the arrows between the left- and right-hand windows to move individual (>) or all channels (>>) to the Favorites list in the right-hand window. You will only be able to select and see channels that are in your Favorites list when using the program. Click “Save” to save changes to your Favorites list. Next, switch to the “Radio favorites” tab and repeat the process.

Note: DVB-T radio programming is not available in all countries.

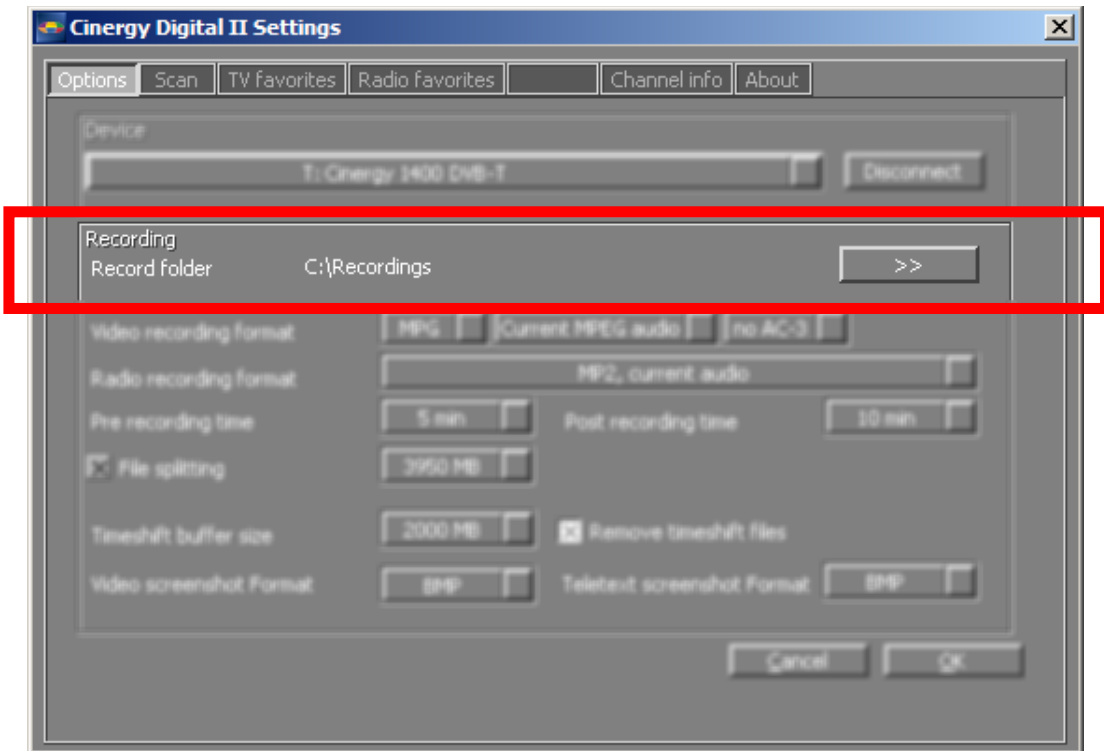


- Channel order/program number.

The channels were entered in the Favorites list in the order in which they were found. As this probably does not correspond to your usual sorting, you can sort your Favorites with the arrow buttons on the right-hand edge of the list.

- Record folder.

Switch to the “Options” tab and select a folder for storing timeshift and recording files. Click “OK” to close the configuration menu.



That completes the basic configuration of the software. The configuration dialog contains a number of other options that will be covered in the “Configuration” chapter.

Design and controls

The software essentially consists of the picture window and the user interface.



Display window



User interface

The user interface contains:

- a context-sensitive display for additional information
- the mode button (TV, radio, video)
- navigation buttons (channel selection, menu navigation)
- the teletext button (open/close teletext, transparent teletext)
- display functions (open/close display window, full screen)
- recording navigation functions (playback, record, pause, etc.)
- audio functions (audio channel/format, volume, mute)
- OSD functions (on-screen display, EPG, program information, timer)
- configuration (basic settings and options)

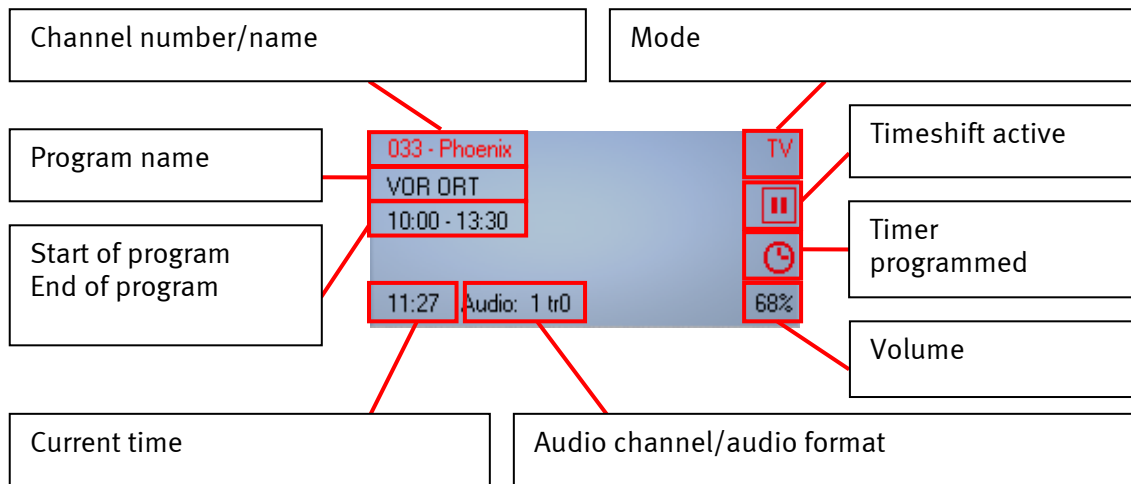
Cinergy Digital 2 software functions can normally be accessed in a number of ways. The following options are always available:

- the buttons of the user interface
- infrared remote control
- on-screen display (OSD)
- context menu—right mouse button on the picture window
- hotkeys or key combinations

User interface: display

The display of the user interface is context-sensitive and shows e.g.

- general information
- channel and program information
- audio information



User interface: mode

The *Cinergy Digital 2 software* has three different modes.

TV mode. Use TV mode to watch programs and record them. TV mode is only available if you have at least one TV channel stored in your TV favorites list.

Radio mode. Use Radio mode to listen to programs and record them. Radio mode is only available if you have at least one radio station stored in your radio favorites list.

Note: DVB-T radio programming is not available in all countries.

















Recording mode. Use this mode to play back recordings of TV or radio programs stored in your Record folder. The display will be empty if there are no recordings in the folder. Please note that *Cinergy Digital 2 software* is no substitute for a general-purpose media player. The Cinergy Digital 2 will only play back recordings made with this application.

Button	Remote	Context menu	Keyboard
MODE	AV	X	TAB

User interface: navigation functions

Navigation: TV and radio mode. Use the navigation buttons to select your station. Press “OK” to display a list of TV and radio favorites in the picture window. You can also select stations directly without navigating through the intermediate stations.



Navigation: OSD. Use the arrow buttons to navigate through the various OSD menus (main OSD menu, EPG, timer, recording, etc). The menus are shown on the picture window. Press “OK” to select a menu item.

Button	Remote control	Context menu	Keyboard
		Channel +	up arrow
		Channel -	down arrow
			left arrow
			right arrow
			RETURN
			Z

The mouse scroll wheel can also be used to navigate list fields such as the EPG and EPG details.

User interface: teletext

Teletext—TV mode only. Press the Teletext button once to display the teletext page of the current channel in the picture window. Pressing the button again will display the page transparently over the current TV program. Pressing it once more ends the teletext display and returns you to the normal TV display. For more information, please see “Teletext”

Button	Remote control	Context menu	Keyboard
		Teletext	T

User interface: display functions

TV display—all modes. The TV button closes the picture window. Click the button again to reopen the picture window.

Note: the digital picture does not need to be decoded if the picture window is closed. This results in a much lower processor load. Don't worry, however—both manual and programmed recordings will continue or be started as programmed with the window closed.

Full screen—all modes. Use the Full Screen button to change to full-screen mode and hide the user interface. Press the button again to restore the window.

Format switching—all modes. Use the format switching button to force video format changes. Many stations broadcast their programs with black bars above and below the actual picture. Naturally, these bars are naturally extremely annoying on wide-screen displays, as a large part of the screen area simply remains black. Some black bars are an integral part of the program. In other words, the program is broadcast in conventional 4:3 format, while the relevant part of the picture is in wide-screen format. The Cinergy Digital 2 software automatically recognizes genuine 16:9 broadcasts and adjusts the picture accordingly. While wide-screen movies in 4:3 broadcasts cannot be identified automatically, it is possible to force the picture to the correct format.

The following illustrations show how format switching affects a 4:3 broadcast containing wide-screen content when viewed on a wide-screen display:

4:3



This is how a 4:3 broadcast with wide-screen content appears on a wide-screen display.

Zoom











And this is how it appears when the Zoom option is selected. The black bars are cut off and the program content is displayed over the entire screen area.

Wide



















The Wide option stretches the picture to the full screen width without cropping it.

Screenshots—all modes. The Screenshot button captures a still image of the current picture. The images will be stored in the selected Record folder.

Button	Remote control	Context menu	Keyboard
		Open/close TV window	Ctrl + X
		Full screen	F
		Format switching Original/Zoom/Wide	<
		Screenshot	P








User interface: recording navigation functions

All modes. Use the recording navigation buttons to control the timeshifting, recording and playback functions of the *Cinergy Digital 2 Software*. Timeshifting, recording and playback are covered in separate chapters, so this is only an overview of the individual buttons.

Button	Remote control	Context menu	Keyboard
		X	L
		X	SHIFT + L
		X	SPACE BAR
		Timeshift	PAUSE
		X	X
		X	SHIFT + N
		X	N
		Start recording	R









User interface: audio functions

All modes. Use the audio functions to select the audio channel and audio format, adjust the volume or mute the audio output. Some channels broadcast in several languages and/or audio formats. The selected audio channel will also be used for recording. Advanced recording functions are available that are covered in detail in the “Configuration: Options” chapter.

Button	Remote control	Context menu	Keyboard
		Audio channel	A
		Mute	M
		Volume up	+
		Volume down	-


User interface: OSD functions

All modes. The on-screen menu can be called up in any mode. For more information, please see the “On-screen display (OSD)” chapter.

Button	Remote control	Context menu	Keyboard
		X	O
			E
			I
			S
X	X	Signal information	CTRL + I

User interface: configuration


Use the context menu to configure the software's general settings, start the channel scan and manage channels in the Favorites list.

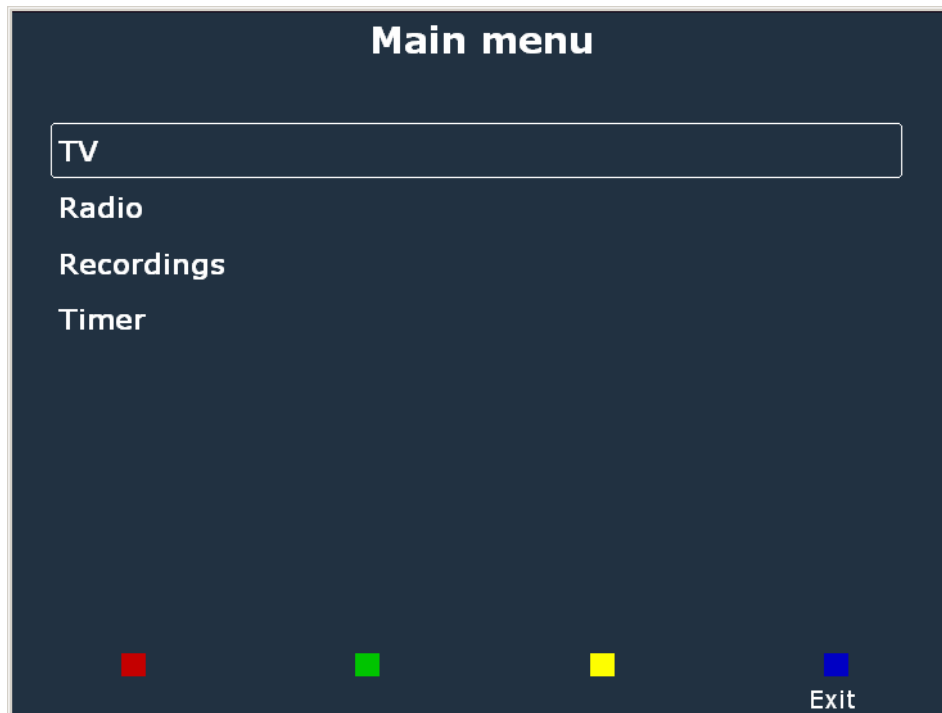
Button	Remote control	Context menu	Keyboard
	X	X	X

On-screen display (OSD)

A number of important *Cinergy Digital 2 software* functions can be accessed via the convenient on-screen display.


Main menu.

 Open main menu.



On-screen display: main menu

TV	Shows the TV favorites list, from which you can choose a channel directly.
Radio	Shows the radio favorites list, from which you can choose a station directly.
Recordings	Displays recordings in the Record folder which you can select and play back. For more information, see the “Recording, playing, exporting” chapter.
Timer	Program recordings here, or check which recordings have already been programmed. For more information, see the “Recording, playing, exporting” chapter.

 Exit Closes the on-screen display (OSD).

EPG—the electronic program guide




The EPG displays the programming of the selected channel. The type of information and amount of detail presented in the guide can vary from channel to channel.



Opens the electronic program guide for the current channel.



The EPG in the on-screen display




- | | | |
|---|---------|---|
|  | Details | Displays detailed information on the selected program. |
|  | Timer | Programs a recording of the selected program. For more information, please see the “Recording, playing, exporting” chapter. |
|  | Exit | Closes the on-screen display (OSD). |

Details

Displays detailed EPG information on a program.



Detailed program information

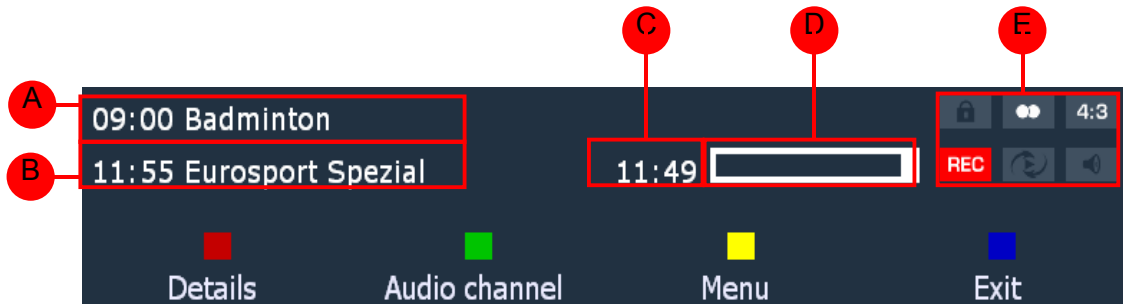
- | | | |
|---|-------|---|
|  | EPG | Closes the detailed information and returns to the EPG menu. |
|  | Timer | Press Timer to program a recording of the selected program. For more information, please see the "Recording, playing, exporting" chapter. |
|  | Exit | Closes the on-screen display (OSD). |

Info

Displays a range of interesting and useful information at the lower edge of the picture window.



Enables the Info bar. The Info bar displays different information than the “Details” item of the on-screen menu, which provides in-depth information on the current program from the EPG.



	The current program.		The following program.
	The current time.		The progress of the current program.

	Program encrypted		Audio format: stereo
	Video format: 4:3		Audio format: Dolby Digital
	Video format: 16:9		Mute
	Video format: Zoom		Recording active
	Video format: Wide		Timeshift active

- Details** Displays detailed EPG information on the current program.
- Audio channel** Some channels broadcast in several languages and/or audio formats. Make your selection here.
- Menu** Switches to the main OSD menu.
- Exit** Closes the on-screen display (OSD).

Timeshifting

Timeshifting is a truly excellent feature. The next time you feel the call of nature, there will be no need to suffer until the commercial break just to make sure that you won't miss a single second.

Note: the Record button is disabled during timeshift playback.

Interrupting a program—starting timeshift recording



Press the Pause button to pause the current program. The top line of the display (channel number, station name, mode) will be displayed in red, and the red Pause icon will be displayed to signal that timeshifting is enabled.

Continuing your viewing—starting timeshift playback



Press the Playback button to continue watching the program from the point at which you paused it.

Interrupting the program again—pausing timeshift playback



Need to get up again? Simply press the Pause button again during timeshift playback to once again pause the program. To continue, press the Playback button again, as before. You can repeat this as often as necessary.

Returning to the real-time broadcast (1)—quitting timeshift completely



To quit timeshift playback and recording in order to go back to watching the program in real time, press the Stop button. The top line of the display (channel number, station name, mode) will once again be displayed in black. The red Pause icon will no longer be displayed, indicating that timeshifting is no longer enabled. If you have specified in the configuration menu that timeshift recordings should not be deleted, you will find the complete recording—from the first interruption, to the time you stopped the timeshift by pressing Stop—in the Record folder.

Returning to the real-time broadcast (2)



Press the Skip button to continue watching the program in real time without disabling timeshift recording.

Fast-forwarding a program



Use this button to fast-forward through the timeshift buffer. For example, if you pause a program and then come across a commercial break that was broadcast while you were away, you can enjoy watching the spots in fast-forward mode. Press the Play button to return to normal speed. Fast-forwarding will stop automatically when you reach the end of the timeshift buffer, and thus the current time.

Skip to the beginning of the timeshift



Press this button to skip back to the beginning of the timeshift buffer. This will return you to the point where you first interrupted the program. Playback will start automatically.

Rewinding a program



Use this button to rewind through the timeshift buffer. Press the Play button to return to playback at normal speed at the selected point. The rewind will stop automatically when you reach the beginning of the timeshift buffer (time of the first interruption).

Recording, playing, exporting

Recording

Two options are available for recording a program:

- immediate recording
- timer-controlled recording
 - EPG-programmed
 - manually programmed

Note—timer-controlled recording. The programmed start and stop time is based on the system time of your computer. You may therefore be in for an unpleasant surprise if your system time is not reasonably close to the actual time. The “Configuration” chapter contains information on setting pre/post recording times to avoid such problems.

Immediate recording

Starting an instant recording



Press the Record button to begin recording the current program.

Stopping an instant recording



Press the Stop button to stop the recording session.

The recordings will be stored in the selected Record folder. The file will be named according to the following structure:

Station name_year-month-day_hour_minutes_seconds.<file format>

Example: CNN_2004-09-01_10_15_00.MPG

This file contains programming broadcast by CNN on 1 September 2004 at 10:15:00 in MPG format.

Timer-controlled recording—EPG-programmed

Programming your recordings using the EPG is definitely the most convenient option.



Open the electronic program guide for the current channel. Select the program you would like to record.



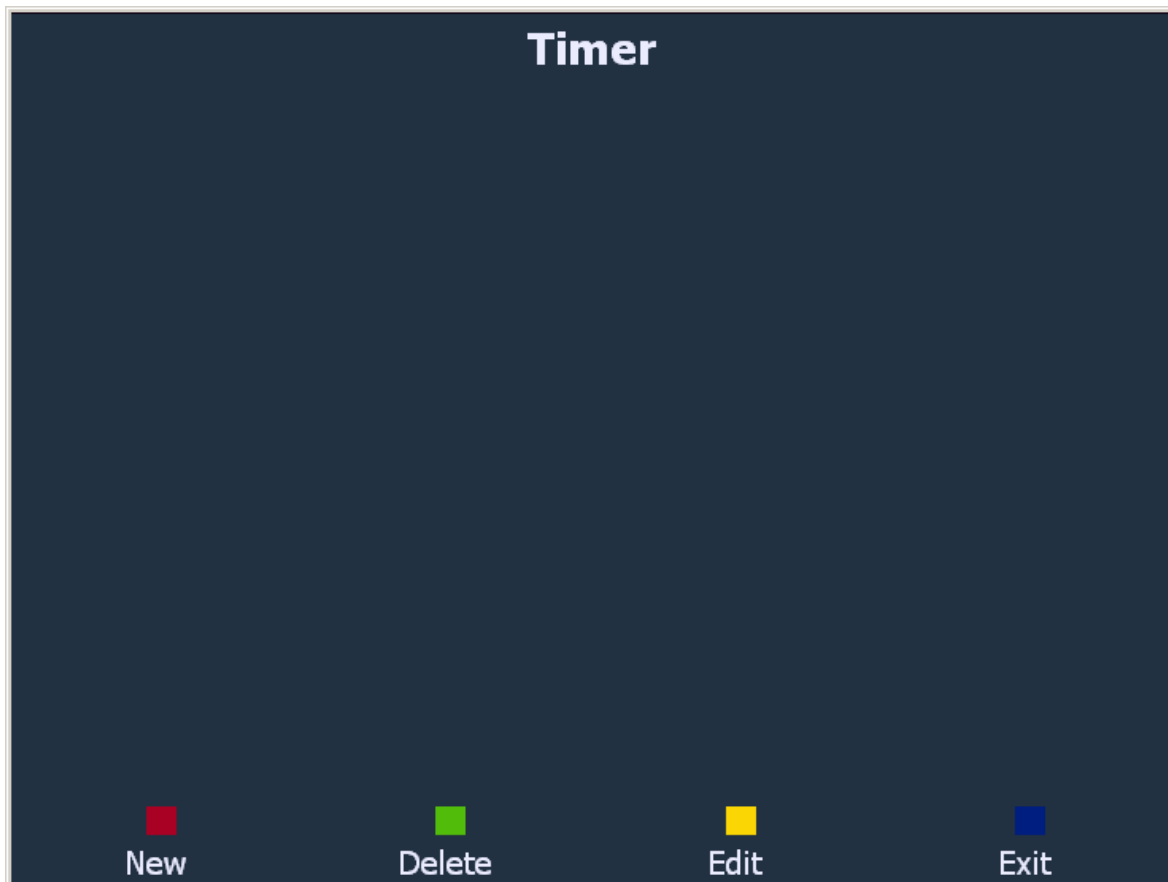
Timer Press Timer to program a recording of the selected program. A red icon will appear next to the selected program. In addition, a red timer icon will appear in the software's window.



Use the on-screen timer menu to check the programming of the recording.



Calls up the on-screen Timer menu.



New

Manually programs a timer-controlled recording. For more information, see the following chapter.



Delete

Cancels a programmed recording.



Edit

Opens recording settings.



Exit

Closes the on-screen display (OSD).

A recording can only be started successfully if the *Cinergy Digital 2 software* is running at the time.

Note: *the channel cannot be changed during recording. If a different channel is selected when recording is scheduled to begin, the software will automatically change to the channel to be recorded.*

The recordings will be stored in the selected Record folder. The file will be named according to the following structure:

Channel name_day.month.year_program name.<file format>

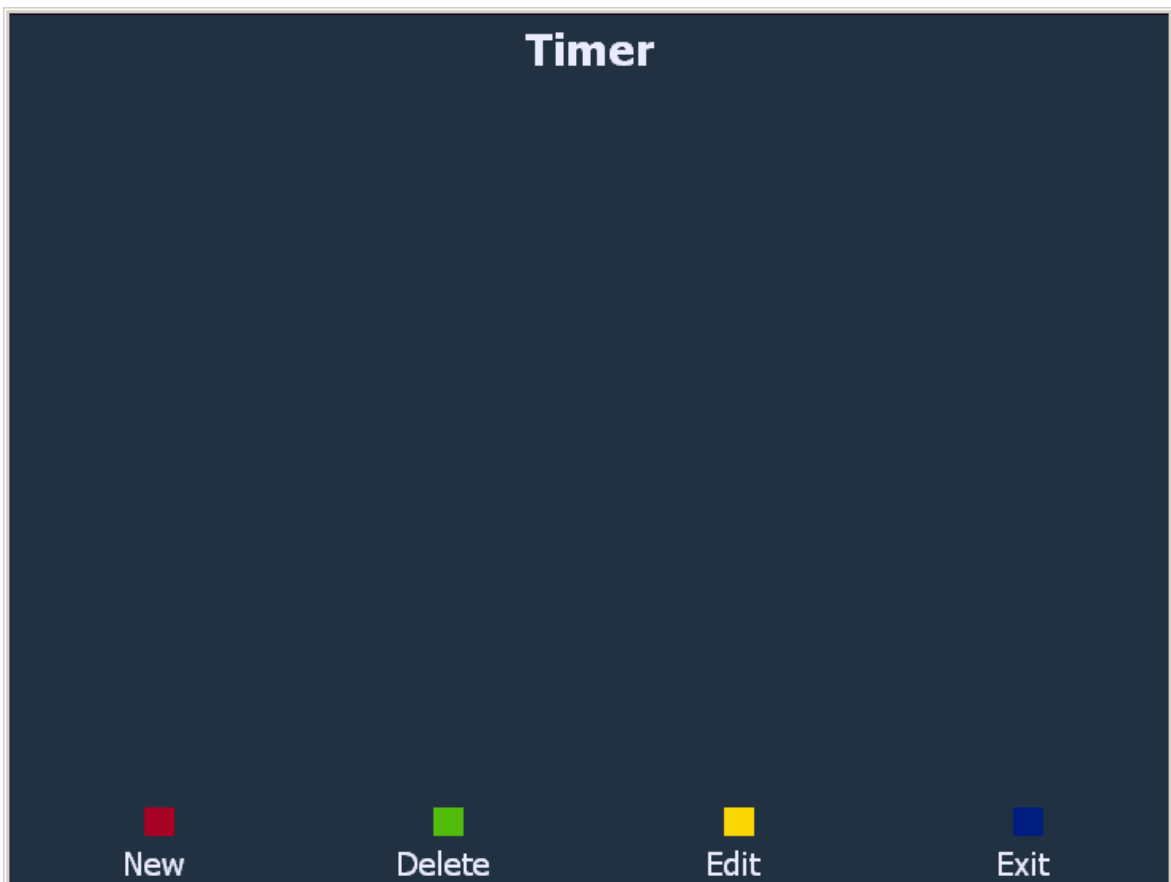
Example: CNN_01.09.2004_Crossfire.MPG

This file contains the program “Crossfire” broadcast by CNN on 1 September 2004 in MPG format.

Timer-controlled recording—manually programmed



Calls up the on-screen Timer menu.



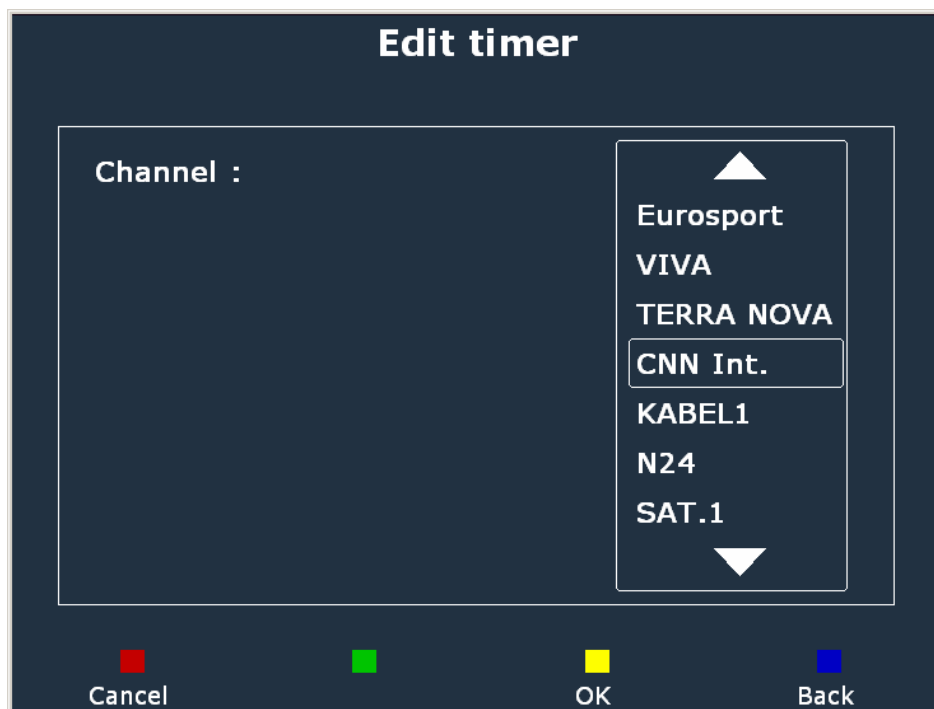
New

Click “New” to program a new recording manually.

If you make a mistake at any point in the following procedure, click “Back” to go back step by step to correct it.

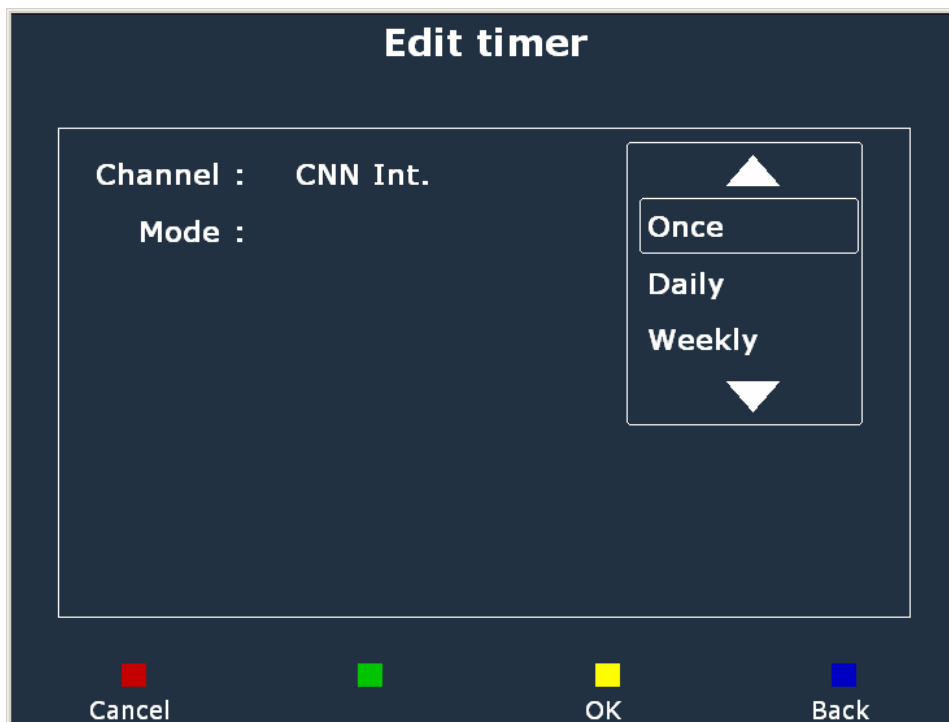
Channel selection.

The channel selection window contains all of the channels in your Favorites list. Select the channel you would like to record.



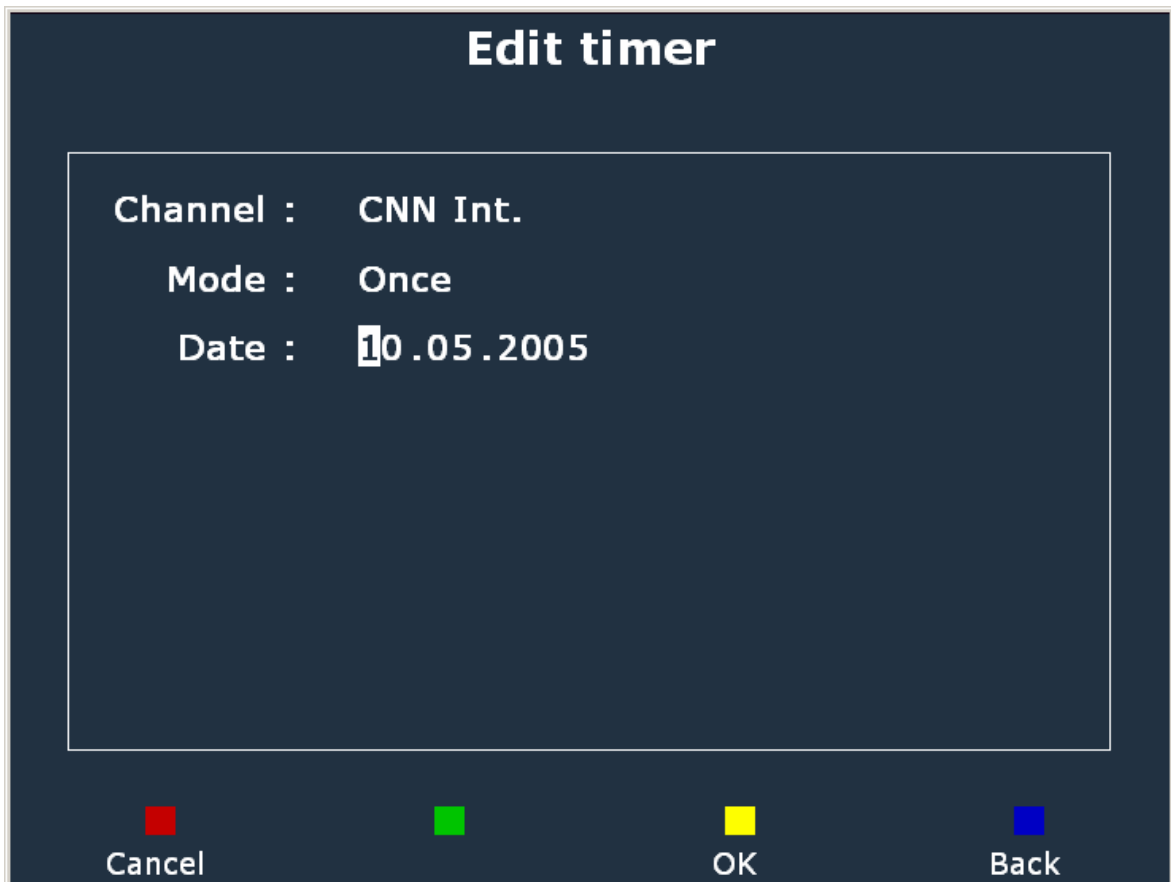
Mode selection

Use the mode selection window to choose whether you would like to program a single recording (such as a movie), or a daily or weekly recording (for series or documentary programs).



Date (for single recordings only)

Set the date of your recording here. Click “OK” or press the **Enter** key to apply the date.



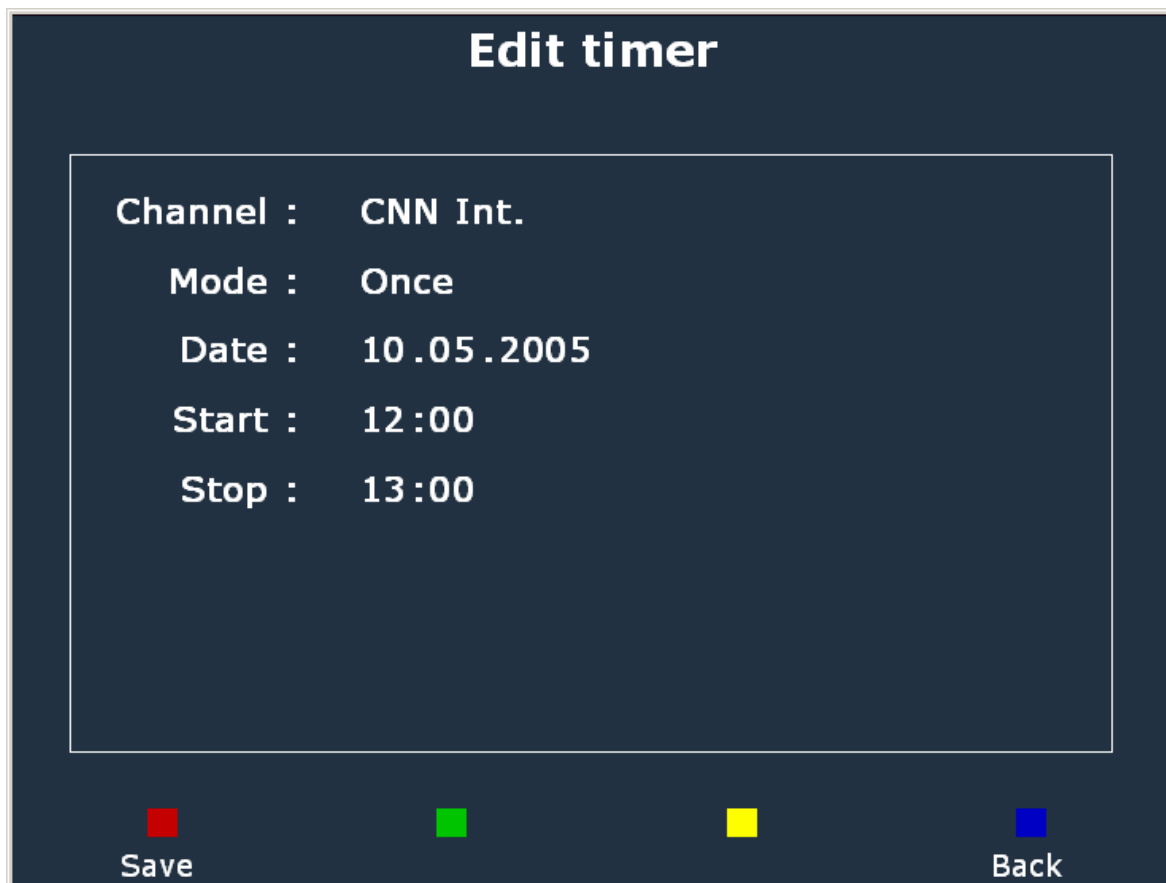
The screenshot shows a dark blue menu titled "Edit timer". Inside the menu, there is a white-bordered box containing the following text:

- Channel : CNN Int.
- Mode : Once
- Date : 10 .05 .2005

At the bottom of the menu, there are four colored squares with corresponding labels: a red square for "Cancel", a green square, a yellow square for "OK", and a blue square for "Back".

Start and stop time

Select the start and stop time of the recording here. Click “OK” or press the **Enter** key to apply the start time.



Save

Check the recording settings and click “Save” to apply the programming and add it to the timer list. If you discover anything that's incorrect, click “Back”. A red timer icon will appear in the software's window.

A recording can only be started successfully if the *Cinergy Digital 2 software* is running at the time.

Note: *the channel cannot be changed during recording. If a different channel is selected when recording is scheduled to begin, the software will automatically change to the channel to be recorded.*

The recordings will be stored in the selected Record folder. The file will be named according to the following structure:

Channel name_day.month.year.<file format>

Example: *CNN_01.09.2004.MPG*

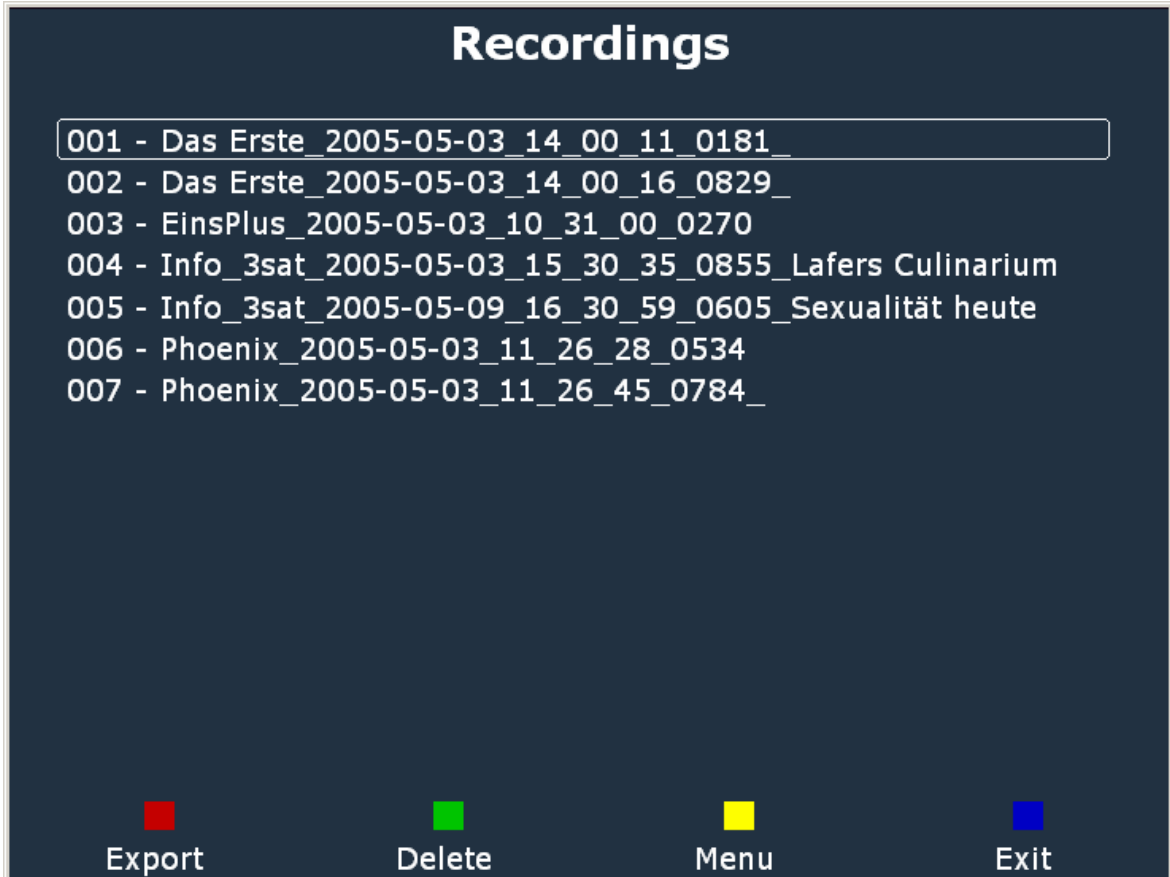
This file contains the programming broadcast by CNN on 1 September 2004 in MPG format.

Playing, exporting, deleting







Open the main menu and select “Recordings”.

The “Recordings” menu contains all of the files in the selected Record folder.



The following options are available:

	Export	Exports the selected recording file to MPEG-PS format which can be read by the included Cyberlink PowerDVD and Ulead FilmBrennerei 2 TV applications.
	Delete	Removes a recording file from the Record folder. Caution—the file will be deleted without further prompting!
	Menu	Switches to the main OSD menu.
	Exit	Closes the on-screen display (OSD).

Teletext

Modern media technology like the Internet made a widespread service offered by TV broadcasting establishments somewhat forgotten in recent years: teletext.



Press the Teletext button once to display the teletext page of the current channel in the picture window. Pressing the button again will display the page transparently over the current TV program. Pressing it once more ends the teletext display and returns you to the normal TV display.



Normal



Transparent

The remote control, mouse and keyboard can be used to navigate teletext pages. When using the numerical keypad, please ensure that the NumLock is active.

Entering the page number directly. To enter a page number directly, use the keypad of the remote control or keyboard. The page will be opened immediately after the last digit has been entered.

Home page (page 100).

Remote control	Mouse	User interface	Keyboard
X	X	X	Pos. 1

Page forward/page back.

Remote control	Mouse	User interface	Keyboard
	X		up arrow
	X		down arrow

Page memory and subpage display. In addition to normal teletext navigation, the teletext function of the Cinergy Digital 2 also indicates whether the memory contains additional pages with the same page number. The availability of additional pages with the same page number are indicated by green triangles before or after the selected page number.




100	No additional pages/subpages have been received or sent.
100▶	Additional pages/subpages are available.
◀100	
◀100▶	


Subpage forward/subpage back.

Remote control	Mouse	User interface	Keyboard
	X	X	right arrow
	X	X	left arrow





References/color-coded navigation. Teletext itself provides easy navigation options known as FLOF or TOP teletext. Colored areas or colored text is frequently visible along the bottom of teletext pages. These markings are comparable to Internet hyperlinks, linking directly to the referenced pages.




Example 1



Example 2

Remote control	Mouse	User interface	Keyboard
 red button	<mouse click>	-	F1
 green button	<mouse click>	-	F2
 yellow button	<mouse click>	-	F3
 blue button	<mouse click>	-	F4

Saving teletext pages. You can also take a screenshot of the current teletext page and store it. The images will be stored in the selected Record folder.

Remote control	Mouse	User interface	Keyboard
-	-		P

The image format for teletext pages (BMP or JPG) and the folder for the files can be specified in the configuration.

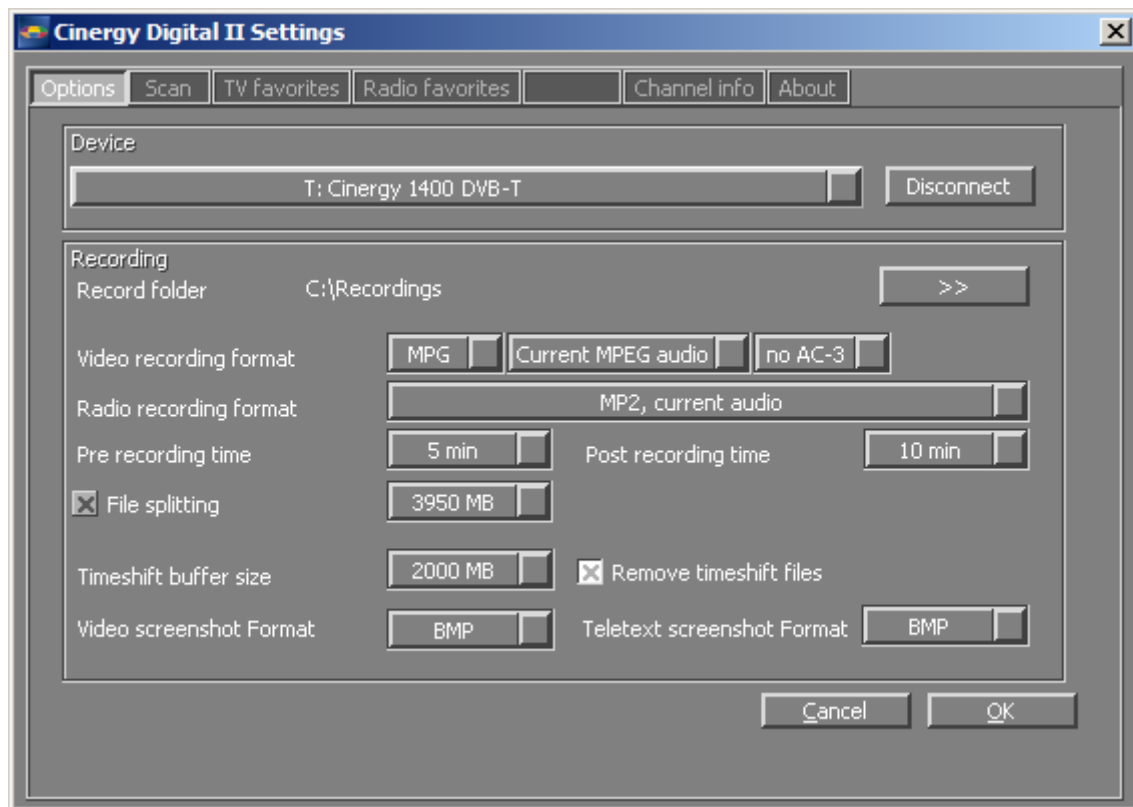
Configuration



Opening the configuration menu.

Configuration: Options

Use the “Options” menu to set up the general properties of the *Cinergy Digital 2 software*.



The options in the configuration menu.

Device. *Cinergy Digital 2 software* supports a wide range of TerraTec TV products. Select your device here.

Record folder. The files created by the various recording functions are stored in the Record folder.

Video recording format. Specifies the type of recording. MPG format, which is supported by virtually all playback applications, is set as the default. TS (transport stream) format, which provides enhanced options such as teletext recording, is also supported.

The following options are available:

MPG	<ul style="list-style-type: none">○ With current MPEG audio○ With all available MPEG audio tracks○ Without MPEG audio○ With AC-3 audio○ Without AC-3 audio	Teletext recording not possible
TS	<ul style="list-style-type: none">○ With current MPEG audio○ With all available MPEG audio tracks○ Without MPEG audio○ With AC-3 audio○ Without AC-3 audio	Teletext recording optional

TS recording with teletext lets you record the subtitles provided for some programs and display them during playback.

Pre and post recording time. Sets the time by which recordings start before and stop after the programmed times. The programmed times are based on the system time of your computer. You may therefore be in for an unpleasant surprise if your system time is not reasonably close to the actual time. This option lets you program additional recording time before and after the actual times to help avoid this problem.

File splitting. Use this option to specify the size of the files in which the recording should be split. Your recordings will automatically be stored in multiple files of the predetermined size. This is especially important if your recording folder is on a hard drive formatted with the FAT file system. Files in the FAT file system may not be larger than 4GB. We therefore recommend using the NTFS file system for the drive containing your recording folder. NTFS supports a maximum file size of 16 terabytes—and that amounts to quite a bit of TV (nearly 555 weeks at an average bitrate of 4 Mbps).

Timeshift buffer size. The maximum amount of hard drive space that may be used for timeshifting. Please note that timeshift recordings are always made in TS format for technical reasons.

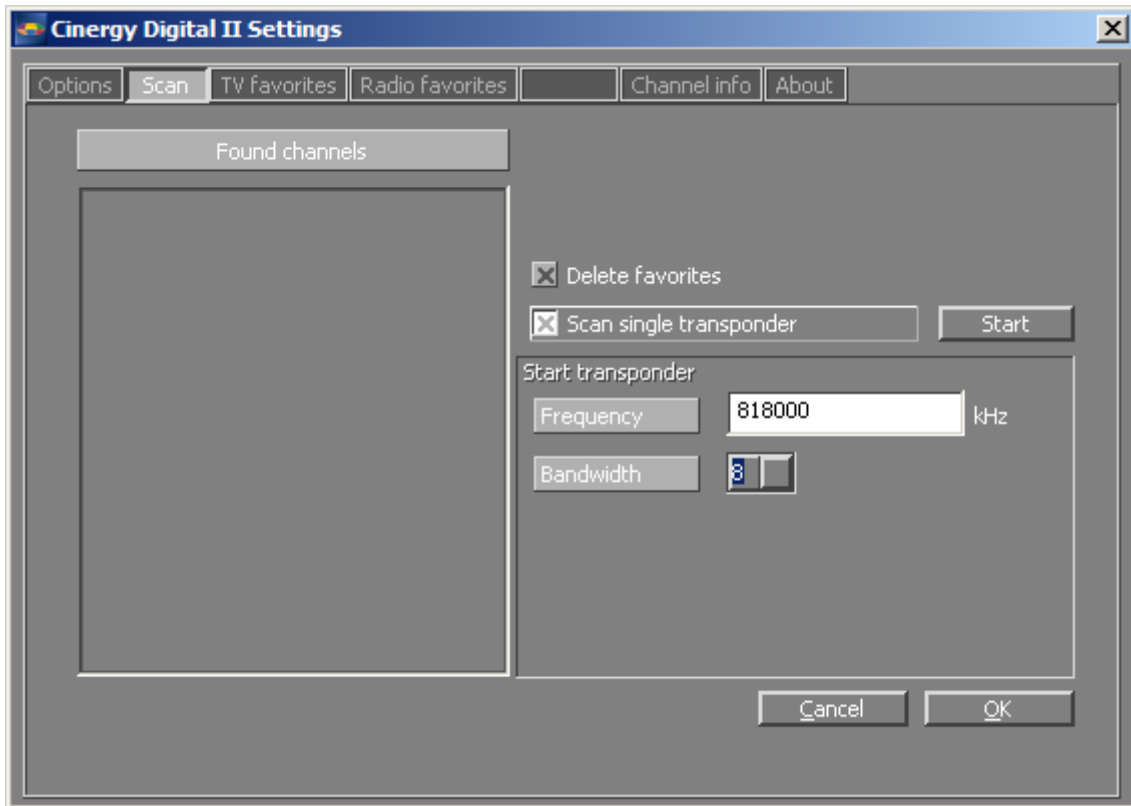
Remove timeshift files. The files created by the timeshift function are normally deleted automatically after use to prevent them from unnecessarily taking up hard drive space. If this option is disabled, timeshift files are retained and can be processed further or watched again.

Video screenshot/teletext screenshot formats. Specify the format for video and teletext screenshots here. These files will also be stored in the recording folder.

Note: *The settings made here apply globally for the entire Cinergy Digital 2 software and are not stored individually for each channel.*

Configuration: Channel scan

A number of options are available in addition to the simple scan described in the “Launching the software for the first time” chapter.



Delete favorites. This option deletes all of the stations that were on your Favorites list prior to the scan.

Scan single transponder. Use this option to select specific frequencies to scan for stations. Select the frequency to be scanned under **Frequency** and the bandwidth in MHz under **Bandwidth**. Note: only bandwidths of 7 and 8 MHz are available in Europe.

Configuration: TV favorites, radio favorites

These configuration menus were already covered in the “Launching the software for the first time” chapter.

Configuration: Channel info

This page contains detailed technical information on the current station. Don't worry, very few normal mortals can make any sense of this info ☺.

Configuration: About

Here you can find information that can prove useful for your own troubleshooting measures or for support inquiries.

Context menu

Most context menu entries were already explained in connection with the user interface. The items covered here are those that are available solely via the context menu.

Page 100. Opens teletext page 100 of the current channel. Page 100 is generally the home page of the station's teletext offerings.

Open Record folder. Opens the Record folder in the Windows Explorer.

Always on top. This setting ensures that the TV picture always remains in the foreground and cannot be partly or completely covered by other windows. (This option is also available for the user interface.)

Optimize window size. Optimizes the size of the picture window for 1:1 pixel display.

Signal information. Please see the “Setting up the antenna” chapter for information on using the signal information.

Setting up the antenna

The Cinergy Digital 2 software is capable of displaying signal information to facilitate setting up the antenna.

Context menu	Keyboard
Signal information	CTRL + I



Use the values for signal quality and signal strength to determine the best position for the antenna. Please note that the signal quality value is decisive, as good quality can be attained even at a low signal strength.

Keyboard shortcuts

The following tables contain all of the keyboard shortcuts of the Cinergy Digital 2 software:

General

Key	Function
0-9	Channel selection
M/* (NUM)	Mute
+/-	Volume up/volume down
CTRL + X	Closes the TV window (not the application)
CTRL + I	Displays signal information
CTRL + V	Opens the recording folder
CTRL + O	Force optimal size for TV window
↑ / ↓	Next/previous station
F1	Shows the timer
F2/F	Full-screen mode ☺

TV

Key	Function
Enter	Shows the station list/selects a station
↑ / ↓	Navigation in the station list (see above)
I	Shows/hides the station information
<	Changes the aspect ratio (4:3/16:9/Zoom)
Z	Zaps back and forth between the previously-watched station and the current one.
P	Screenshot of TV picture
A	Switches audio tracks

Teletext

Key	Function
T	Shows/hides teletext
Pos. 1/Home	Selects page 100 (contents)
↑	Page number + 1
↓	Page number – 1
→	Next page/subpage in memory
←	Previous page/subpage in memory
F1	Soft key: red
F2	Soft key: green
F3	Soft key: yellow
F4	Soft key: blue
0-9	Manual page entry
P	Screenshot of teletext

OSD

Key	Function
E	EPG on/off
I	Program information on/off
O	Shows/hides the OSD
S	Opens/closes the scheduler (timer)
F1	Soft key: red
F2	Soft key: green
F3	Soft key: yellow
F4	Soft key: blue
Page Up	Up one page in OSD lists
Page Dn	Down one page in OSD lists
↑ / ↓	Navigation in OSD lists
Esc	Exits OSD
Backspace	Moves the cursor back one space when entering characters

Transport functions

Key	Function
L	Skips to the start of playback To the beginning in case of timeshift
L + Shift	Fast rewind
N	Skips to the end of playback In the case of timeshift, as close as possible to real time
N + Shift	Fast forward
R	Starts recording
R + Shift + Ctrl	Starts recording of a complete transponder (cancel by changing channels)
PAUSE	Start timeshift
Space bar	Start playback/slow motion
X	Stop playback/stop recording