VideoSystem



Realtime Video Editing Solution

Manual (English)

Version: 12.11.03

CE Declaration

We:

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

hereby declare that the product:

VideoSystem Cameo 400 AV mobile

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

H. Oleg.

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Preface

Thank you for choosing a TerraTec product. Congratulations on your decision to buy this sophisticated piece of state-of-the-art technology, the Cameo 400 AV mobile. You have just purchased one of the most powerful products available for video applications. We're convinced that the Cameo 400 AV mobile will be both very useful and a lot of fun for you for a long time to come.

Scope of delivery

- CAMEO 400 AV mobile
- Multi-connector cable
- Composite cable
- S-video cable
- Stereo audio cinch cable
- Scart-composite/S-video/audio cinch (RCA) adapter
- Ulead DVD MovieFactory 2 SE
- Ulead VideoStudio 7 SE DVD
- This manual
- Registration card with the serial number

Key Features & Specification

- PCMCIA card hardware MPEG encoder
- S video, composite and stereo audio inputs
- DVD, SVCD and VCD Authoring
- On-the-fly DVD creation
- Ulead VideoStudio 7 SE DVD and DVD MovieFactory 2 SE
- Recording plug-in for Ulead software
- TerraTec recording and playback application

Product description

Transform your notebook into a mobile video editing studio

The Cameo 400 AV mobile lets you turn your notebook into a mobile studio for digitizing and editing your videos. Simply connect a video source such as a video recorder, DVD player, camcorder or sat receiver to your notebook via the PCMCIA interface. The Cameo 400 AV mobile directly converts video signals to MPEG2/1 format, delivering high quality even at low bit rates. This does not result in undue CPU loads, as the MPEG compression is performed by the PCMCIA card itself.

You're the director!

In addition to the Cameo 400 AV mobile application for recording and playback in a variety of formats and resolutions, the package contains Ulead Video Studio 7 and MovieFactory 2— video editing and DVD authoring applications that let you create true blockbusters out of your video material. A plug-in lets you access the Cameo 400 AV mobile directly to store your motion pictures on the hard drive or even burn them onto a DVD on the fly. With VideoStudio 7 SE DVD, you can edit, trim and organize your video clips and add music, voice-overs and titles. Special effects, cross-fades and filters are available for the finishing touches. And the best thing about it: everything works in real time, without annoying processing delays.

That's the wrap?

Then onto a DVD or (S)VCD with it. Thanks to Ulead Movie Factory 2, you can even burn your work on the fly. You can also add professional menus to your DVDs, as well as frames, buttons and backgrounds. All with just a few clicks of the mouse.

Product illustration



Using the Cameo 400 AV mobile PCMCIA card for the first time

The PCMCIA card is extremely simple to install. The installation can be completed without shutting down your computer. Connect the multi-connector cable to the Cameo 400 AV mobile. Insert the included installation CD in your CD drive. Insert the Cameo 400 AV mobile, connector strip first, into the PCMCIA slot of your computer until the card is firmly seated. Your notebook will recognize the new hardware and launch the installation wizard.

Installing the drivers

Driver installation under Windows XP

Found New Hardware Wizard		
	Welcome to the Found New Hardware Wizard	
	This wizard helps you install software for:	
	Cameo 400 AV mobile	
	If your hardware came with an installation CD or floppy disk, insert it now.	
	What do you want the wizard to do?	
	 Install the software automatically (Recommended) 	
	Install from a list or specific location (Advanced)	
	Click Next to continue.	
	< <u>B</u> ack <u>N</u> ext > Cancel	

Please choose "Install from a list or specific location (Advanced)". Please click "Next".

Found New Hardware Wizard			
Please choose your search and installation options.			
Search for the best driver in these locations.			
Use the check boxes below to limit or expand the default search, which includes local paths and removable media. The best driver found will be installed.			
Search removable <u>m</u> edia (floppy, CD-ROM)			
Include this location in the search:			
Browse			
O Don't search. I will choose the driver to install.			
Choose this option to select the device driver from a list. Windows does not guarantee that the driver you choose will be the best match for your hardware.			
< <u>B</u> ack <u>N</u> ext > Cancel			

Select the upper item and browse your installation CD.

Driver installation under Windows 2000

Found New Hardware Wizard			
	Welcome to the Hardware Wizard	Found New	
	< <u>B</u> ack	Next >	Cancel
Found New Hardware Wizard			
Install Hardware Device I A device driver is a softwa an operating system.)rivers are program that enables a hai	dware device to wor	k with
This wizard will complete t Cameo 400 AV r A device driver is a softwa needs driver files for your installation click Next. What do you want the wiz Search for a suitab	he installation for this device: nobile re program that makes a hard new device. To locate driver f ard to do? le driver for my device (recom	ware device work. W lies and complete the mended)	∕indows ≆
C <u>D</u> isplay a list of the driver	known drivers for this device	so that I can choose	a specific
	< <u>B</u> ack	<u>N</u> ext >	Cancel

Let your system search for a suitable driver. Confirm by clicking "Next".

Found New Hardware Wizard
Locate Driver Files Where do you want Windows to search for driver files?
Search for driver files for the following hardware device:
Cameo 400 AV mobile
The wizard searches for suitable drivers in its driver database on your computer and in any of the following optional search locations that you specify.
To start the search, click Next. If you are searching on a floppy disk or CD-ROM drive, insert the floppy disk or CD before clicking Next.
Optional search locations:
Floppy disk drives
CD-ROM drives
Specify a location
Microsoft Windows Update
< <u>B</u> ack <u>N</u> ext> Cancel

Select your CD-ROM drive and click "Next".

Digital signature in Windows XP and 2000



Continue the installation. The driver can be installed despite the lack of signature. The missing signature has no effect on the quality or functionality of the driver.

Installed drivers should look like this.

🚇 Device Manager	
<u>Eile A</u> ction <u>V</u> iew <u>H</u> elp	
$(+ \rightarrow \blacksquare \cong \textcircled{a} \textcircled{a} \bigotimes \ggg $	
TEST-02 Computer Disk drives Display adapters DVD/CD-ROM drives TEST-02 Monitors Monitors Processors Processors Sound, video and game controllers Audiocodecs Audiocodecs Audiocodecs Video Codecs Video Codecs	

To open the Device Manager, press and hold the Windows key (with the Windows logo) and press the Pause key. This opens the System Properties window. Click the "Hardware" tab and then the "Device Manager" button.

Installing the software

Inserting the installation CD will automatically launch an installation program. If this is not the case, please manually execute **AUTORUN**. **EXE** in the root folder of the CD.

While the installation program will take care of most of the work, we were not able to automate everything for you. A number of points must be observed to that the installation is set up correctly the first time around.

Installing DirectX 9

We realize that things don't always go as planned. With the introduction of DirectX 9, Microsoft offers many improvements and bug fixes that are essential for digital video editing. Please install this update first!

Installing the Cameo 400 AV mobile application

Install the application from the included installation CD. Simply follow the instructions provided. More information on the software will be provided later under "The software in detail".

Installing the Cameo 400 AV mobile plug-in

This plug-in gives you direct access to the Cameo 400 AV mobile from the Ulead software. Install it from the Installation CD and it will be available from within the video editing software.

Installing Ulead DVD VideoStudio 7 SE and MovieFactory 2 SE

Install VideoStudio and DVD MovieFactory 2 SE from the installation CD. Simply follow the instructions provided.

Detailed manuals for both Ulead applications can be found on the installation CD.

The software in detail

Cameo 400 AV mobile application

Use this simple tool to record and play back your videos.



- A Repeat
- B Rewind
- C Playback
- D Pause
- E Fast forward
- F Stop

- G Recording
- H Sound on/off
- I Snapshot
- J Volume
- K Settings

Video recording

Connect your analog video source to the Cameo 400 AV mobile. When using the composite video input (③), a preview will be displayed in the preview window.





The display will show the video input and quality level you have selected.

To change the settings, click the tool icon (K). A new window will open:

🖞 Preview 🎦 Re	ecord 🔯 Snap 🚺 Abo	put
Video Source:	Video	~
Color Setting	Video SVideo	
Brightness: 🦟	0	- 50
Contrast: 🦳		- 53
Hue: 🦟	0	- 50
Saturation: 🦟	0	- 50
Sharpness: 🦟		- 81
	Default	
Application is al	ways on top	
Enable DXVA		

Here you can select composite video or S video as the connection for your analog video source, adjust the color or activate DXVA. DXVA (DirectX Video Acceleration) supports video editing directly on the graphics hardware to reduce CPU loads and improve video performance. According to Microsoft, this lets slower, less power-hungry processors play back video with significantly higher quality than previously deemed possible. DXVA will be disabled automatically if your graphics board does not support this Microsoft standard.

Next, select the "Record" tab.

Preview Preview Save location: C:\Dokumer File Name Type O Auto (MVR_CAPT_ Fixed MVRCapt.mp	Image: Snap Image: About Inte und Einstellungen\MHop; Image: Snap _YY-MM-DD_HH-MM-SS.mpg) Image: Snap
Record quality HQ LP SP MPEG1 DVD Movie Album creation purpose	 Record limit Size (Suited for DVD) None
Note: Recording will be stop disk space has reached bel	oped immediately when the hard ow 100 MB.

Here you can configure all of the settings relevant to recording. Select the save location, file name type and recording quality.

"HQ" (highest quality), "SP" (medium) and "LP" (space-saving) are DVD-compliant. We recommend selecting a suitable quality level on a case-by-case basis, as the video file sizes increase with the quality. In addition, you can also record in MPEG1 format. Use this file format for space-saving video CDs. DVD Movie Album is specific to the Panasonic application of the same name for creating DVD-RAMs. When this option is selected, an additional .MTV file needed by the Panasonic application will be created automatically in addition to the recorded video file. You will not need .MTV files if you are using a DVD – or + recorder.

Once you have taken care of the settings, you can get started right away. Simply click the Record button (G) and away you go. To view the recorded video, please click the playback button (C). Select the folder in which you have saved the video.

Editing your video files and creating DVDs or video CDs is no problem with the included Ulead applications.

We have developed a plug-in to let you access the Cameo directly from Ulead VideoStudio.

Cameo 400 AV mobile plug-in in Ulead VideoStudio 7

After installing VideoStudio 7 and the Cameo 400 AV mobile plug-in, you can record directly, without the need for software conversion of the video. You must select the recording plug-in for this purpose, however.

- 1. Start Ulead VideoStudio
- 2. Select File -> Recording Plug-In
- 3. Select Cameo 400 AV mobile plug-in and click OK.

That's it. Naturally, you can also change other settings.

- 1. Switch to the recording mode.
- 2. Select Options -> VideoFormat

Specify the quality of your recording here. As always, the higher the bit rate, the better the quality, and the larger the file size. However, the Cameo 400 AV mobile also delivers surprisingly good results at low bit rates.

Video Format		X
Recording Profile:	6 Mbps CBR	~
Detail Profile Setting:		
Video Type Average Bitrate Maximum Bitrate Resolution Audio Type Bitrate	MPEG-2 (CBR) 6000 kbps 6000 kbps 720x480 (NTSC) / 720x576 (PAL) MPEG-1 L2 224 kbps	
	OK Cancel	

Additional configuration options are available under Options -> Video Source. Here you can select the input (S video/composite) that you are using to connect your analog video source to the Cameo 400 AV mobile.

The recording plug-in is also available in Ulead MovieFactory, of course. Please refer to the installation CD for detailed documentation of the Ulead applications.

Service at TerraTec.

Nothing seems to work!—This can happen even on the best systems. If this happens to you, the TerraTec team is happy to offer its service and support.

Hotline, Internet.

If you have a tough problem—where you cannot solve the problem yourself, the support in this manual doesn't resolve the problem, and your dealer can't fix it either—please contact us directly.

If possible, try our Internet support system first: under http://www.terratec.com/ you will always find current answers to frequently asked questions (FAQ).

If these options do not provide the necessary help, please contact our phone hotline. You can also reach us online. To do so, visit us at http://supporten.terratec.net/.

In either case, please have the following information handy:

- your registration number,
- this documentation,
- the manual of your motherboard, and
- a screen shot of your BIOS configuration, if possible.

In addition, it would be helpful to our technicians if you are at your computer during the phone call so that you can carry out our tips and tricks 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 card needs to be mailed to us.

Broken?!

Before you send the card back, be sure to contact us! Make a note of the name of your support contact and follow these simple instructions:

- Please fill out the service request form provided with your card clearly and completely. The more clearly and detailed you describe the problem, the faster we will be able to help. Cards sent in without a description of the problem cannot be processed and will be returned to you at your expense.
- Be sure to include a copy of your purchase receipt (not the original) with the package. If we do not receive a copy of a receipt, we will assume that the warranty for the product has expired and will bill you for the repair.
- Please use a sufficiently strong and padded mailing package. We recommend using the original package. Remember that the card is a sensitive electronic component.
- Be sure to include enough postage—we will cover for the postage for the return to you.

General terms and conditions of service

1. General

You accept our general terms and conditions of service by purchase and receipt of the goods.

2. Proof of warranty

You will require a copy of the purchase receipt or delivery slip as proof of warranty. If you do not supply proof of warranty, we will charge for repairing the goods.

3. Description of fault

Shipments that do not include a description of the fault or an insufficient description ('defective' or 'for repair' is insufficient) will be returned for a processing fee, because this makes repair more difficult and could have been avoided.

4. Unfounded complaints

In the event of an unfounded complaint (no fault could be detected, probable operating error), we will return the goods and a processing fee will be charged.

5. Packaging

If possible, please use the original packaging for return shipment. Any warranty claim will be jeopardized by improper packaging. The warranty will not apply to damage caused by improper packaging.

6. Third-party products

Devices that are not manufactured or distributed by TerraTec Electronic GmbH will be returned and a processing fee will be charged.

7. Chargeable repairs

Repairs outside the warranty period are chargeable.

8. Shipping costs

The dispatcher pays all costs associated with shipping and insurance for the goods for repair to TerraTec Electronic GmbH. If the goods are covered by warranty, TerraTec Electronic GmbH will pay the shipping costs for returning repaired goods. COD shipments will not be accepted for organizational reasons.

9. Final clause

TerraTec Electronic GmbH reserves the right to change or supplement the general terms and conditions of service at any time.

Otherwise the General Terms and Conditions of Business of TerraTec Electronic GmbH are considered to be accepted.

Glossary

AVI – A Windows video format.

Bit rate – The bit rate indicates the volume of the data stream per second. A higher bit rate results in higher quality. A distinction is made between constant bit rates (for -> VCD, for example) and variable bit rates, e.g. for -> SVCD and -> DVD. Unlike constant bit rates, variable bit rates adjust the size of the data stream according to the video material.

Blue screen – A variation of -> Chroma keying

Capture - Recording.

Chroma keying – Chroma keying uses a surface with a single color in front of which an actor, for example, is filmed. This color area is then made transparent during subsequent editing and can be replaced by a different background.

Chrominance – Chrominance refers to the color signal in -> YUV, which is comprised of two color components: U, the balance between red and cyan, and V, the balance between yellow and blue.

Clip – A short piece of video material.

Composite video – Composite video is a transmission method common in the consumer sector that is generally realized using cinch connectors and which is frequently used, for example, on TVs. In this process, all signals (chrominance and luminance) share a single cable. The quality of composition video is lower than that of -> S-video, for example, in which chrominance and luminance are transmitted separately.

CPU – Central processing unit. The part of your computer (the processor, i.e. Pentium or Athlon) that does the actual computing.

D8 – Digital 8 is the successor to the Hi8 and VHS-C camcorder formats. Hi8 or D8 cassettes are still used, but the video data is recorded digitally in DV format.

Data throughput – see Data transfer rate

Data transfer rate – The data transfer rate describes the speed at which a hard drive can read or write data over a sustained period. The data transfer rate is usually measured in seconds, e.g. 7 Mbps.

Device control – In DV terms, this refers to the ability to control your camcorder from your PC.

DirectDraw – This is a graphics standard that was initially developed by Microsoft. Its features include the capability to write graphics data directly to the memory of the graphics board for the fluid display of video material.

Dropped frames – These are individual images missing from the video data stream, usually due to a slow hard drive.

DV – DV stands for Digital Video. The DV standard uses a compression rate of 5:1. This corresponds to a data rate of 3.125 Mbps, which can be handled by virtually all newer hard drives. The quality of the DV standard is very high; it is therefore frequently used in professional productions. A number of different cassette types exist in the DV sector, which vary in size and maximum playing time, but which are compatible with one another in terms of video data. MiniDV is designed for the consumer sector and supports playing times of up to one hour. The DV format used in the professional sector supports playing times of up to three hours.

DVD – Abbreviation for "Digital Versatile Disk". The diameter of a DVD is the same as that of a CD-ROM. Current DVD specifications cover storage capacities ranging from 4.7 GB (DVD-5) to 17 GB (DVD-18) and data rates between 600 and 1,300 Kbps. Distinctions are also made between a variety of formats such as DVD Video, DVD Audio, DVD-ROM, DVD-R, DVD-RW and DVD-RAM.

DV-In – Usually, the DV jack of a camcorder can transport video data in both directions— to and from the camcorder. Many camcorders in Europe do not feature DV-In, however. Also see -> Enabling.

Enabling – Due to European import duties, imported digital video recorders are more expensive than imported digital video playback devices. For this reason, manufacturers of camcorders have begun to modify their products for the European market and to disable the digital input -> DV-In. Needless to say, clever developers found a way around this restriction very quickly. This is known as "enabling". Enabling the DV camcorder is a precondition for sending video material back to the camcorder. Enablers are available for almost all camcorders and can be purchased freely.

Fade - see Fading

Fading – Fades are soft transitions, often involving special effects, from one clip to the next.

Fields – Rather than displaying 25 frames per second (as per the PAL standard), 50 fields are displayed per second to reduce TV display flicker. These fields consist of either the odd-numbered rows (these are sent first) or the even rows of the image being displayed.

FireWire[™] – Apple's name for -> IEEE-1394

Frame rate – The number of frames within a given period of time. The frame rate is frequently stated in frames per second (FPS).

Hi8 – Analog video recording system that separates color and brightness information, thus offering quality better than that of VHS-C, for example.

Hosiden connector – A small connector with four conductors used for -> S video signals.

IEEE -1394 – This is a universal bus system originally developed by Apple for digital data communications. The devices are connected by cables with a maximum length of 4.5 m. The system supports transfer rates of up to 400 Mbps. However, a standard has not been established for video data due to the lack of specifications for the format of video data using this bus. Sony got down to brass tacks and closed this gap by installing FireWire[™] sockets in its digital camcorders and developing its own protocol. Thanks to FireWire[™] and the Sony protocol, the dream of loss-free video editing has finally come true.

iLink – Sony's name for -> IEEE-1394

Interlacing – see Fields

Linear editing – The origins of linear video editing date back to analog video. The original video data is generally present in the same sequence as the edited video clips. A simple type of linear editing would be, for example, transferring video material from an analog video camera to a video recorder while discarding a number of clips. If you then insert a new clip in the middle, however, all of the following clips will also require editing.

Luma keying – Unlike chroma keying, the transparency of the video is determined on the basis of brightness in luma keying.

Luminance – Luminance refers to brightness in -> YUV. (Y)

Main memory - see RAM

MiniDV – The consumer version of the DV format. Also see –> DV.

MiniDVD – This is a process in which -> DVD data, including the DVD directory structure and navigation menu, is burned onto a blank conventional CD. Due to their lower capacity, MiniDVDs can only store around 18 minutes of video data. Unfortunately, not many DVD players support MiniDVDs. This format is best suited for playback on PCs for this reason.

MJPEG – Motion JPEG is a compression process in which every single frame in the video data stream is compressed individually.

MPEG – The Motion Picture Experts Group is a consortium of leading manufacturers and developers of video technology that determines new standards such as MPEG-1 or MPEG-2.

Nonlinear editing – Unlike -> linear editing, individual clips can be edited without affecting subsequent clips. For example, with nonlinear editing, you can shorten or remove a clip at the beginning of a video project without having to edit the following clips as a result.

NTSC – NTSC is the video standard used, for example, in the USA and Japan. NTSC has a higher frame rate than PAL (30 frames or 60 -> fields per second), but a lower resolution (525 rows, with 480 visible). Color depiction in NTSC is realized in -> YIQ.

PAL – This is the most common video standard in Europe. PAL displays 25 frames (or 50 -> fields) per second and has a resolution of 625 rows, of which 576 are visible. Color depiction in PAL is realized in -> YUV.

Preview – The preview offers you a quick overview of your work. The final quality is normally considerably higher than that of the preview.

RAM – Random Access Memory is the main memory of your PC. Since video editing with effects is very memory-intensive, the old rule applies: you can never have enough RAM!

Rendering – this refers to the processing of video or audio clips after an editing operation has been completed, for example after the application of an effect or filter.

RGB color space – In the RGB color space, each visible pixel is made up of the three components R(ed), G(reen) and B(lue). To achieve the natural display of colors on a computer, each of these components must have at least 256 values. This corresponds to exactly one byte for each color component. A single complete video image would thus require 768 pixels x 576 pixels x 3 bytes = 1,327,104 bytes. This corresponds to around 1.2 MB per frame! One second of video in the RGB color space would therefore require around 31.6 MB of storage space. Using this process, a 2 GB hard drive would have a video capacity of around one minute. No current hard drive can deliver this volume of data in real time, but a number of options are available to reduce the data volume of the video signal substantially through transformation to a different color space (usually YUV) and compression (usually MJPEG).

Saturation – Describes the share of color in the picture.

Storyboard – Unlike the -> timeline, the storyboard offers a thematic overview of your video project. Individual scenes can be identified easily, but it does not deliver a sense of the actual length of the project.

SVCD – Abbreviation for Super Video CD. SVCDs are similar to -> VCDs, but they have a great advantage in that their data is in MPEG-2 format with a -> variable bit rate. In addition, the resolution of 480 x 576 pixels is higher than that of the VCD. An SVCD generally can contain 45-50 minutes of video material. The bit rate (audio and video) of an SVCD may not exceed 2.6 Mbps. SVCDs can be viewed using many standalone DVD players.

S-video – Unlike -> composite video, chrominance and luminance are transmitted separately in S-video, resulting in higher quality.

Timeline – The timeline is the time axis upon which you position and edit your video clips.

Transition – see Fading

Trimming – This refers to adjusting the length of a video clip at the beginning and/or end.

VCD – Abbreviation for Video CD. The Video CD has a PAL resolution of 352 X 288 pixels and stores audio and video data in MPEG-1 format. VCDs use a constant -> bit rate of 1.15 Mbps for video and 224 kbps for audio data. VCDs can be viewed in virtually any DVD player.

Video filter – Video filters let you influence your video material in a wide range of ways. For example, you can manipulate the colors of your video film or use complex filters to degrade your new, top-quality film to look like an old, silent movie.

Video for Windows – This is an old, but still commonly used, video concept for Windows.

YIQ – YIQ is a color space related to -> YUV. It is also characterized by a brightness component -> luminance (Y), but also by different color components, I (cyan-orange balance) and Q (magenta-green balance). YIQ is used for -> NTSC, for example.

YUV – YUV is the designation for a color space characterized by a brightness component -> luminance (Y) and two color components -> chrominance (U, V).