



Realtime Video Editing Solution

English Manual

Version 08.10.03

CE - Statement

We:

TerraTec Electronic GmbH · Herrenpfad 38 · D-41334 Nettetal

hereby declare that the product:

VideoSystem Cameo 200 RT

to which this declaration refers complies with the following standards or standardizing documents: 1. EN 50081-1

2. EN 50082-1

The following are the stipulated operating and environmental conditions for the 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. Olar

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Preface

Thank you for purchasing a product made by TerraTec. You have made a good choice, as the Cameo 200 RT is an impressive piece of "State of the art" technology. This product is one of the most efficient computer devices for video applications. We are convinced, that the Cameo 200 RT will serve you well and you will have a lot of fun, whenever you are using it.

Installation

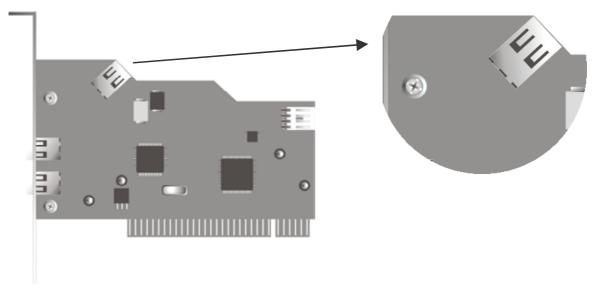
The card's layout

The external IEEE-1394-connectors



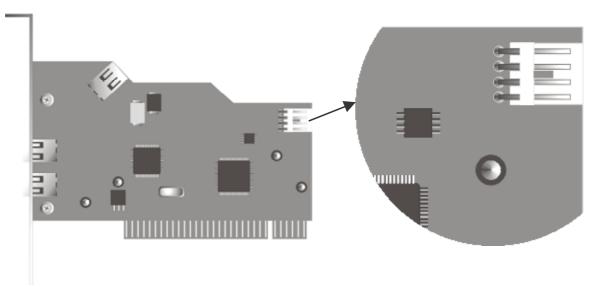
These connectors allow you to connect the Cameo 200 RT to the rest of the world, e.g. to your camcorder.

The internal IEEE-1394-connector



The internal connector of your Cameo 200 RT is intended to connect the 5,25" front panel "Cameo Connect".

The internal power supply



If you wish to connect further IEEE-1394 components, which need to receive their power supply via the Cameo 200 RT, you should connect your computer's power supply directly to the Cameo 200 RT. This way, the power is provided by the power supply, so that the main board, which otherwise conducts the current, will not be overloaded.

Please be careful, when connecting the power adapter to your Cameo 200 RT, as an incorrect connection may damage the product and other components of your system. For more information, please refer to page 8.

VideoSystem Cameo 200 RT (English)

Installing the Cameo 200 RT – PCI card

Before installing the Cameo 200 RT into your computer, please pay attention to special features of your computer's configuration. Read the instruction manuals of your computer and other additional cards for information about settings.

If you follow the instructions, the installation should be easy.

If you are experiencing any problems, please carefully read the corresponding sections in the manual once again.

First, check if the package is complete.

Minimum contents of package:

1 Cameo DV, PCI-IEEE1394 Controller

1 Cameo Connect, 5¹/₄" Front module (additional 4 spare front screen in 4 colors)

1 Installation CDs

1 IEEE1394 connection cable 6 Pin to 4Pin for connection to your camcorder

1 IEEE1394 connection cable 6 Pin to 6Pin for connecting the Cameo 200 RT to the Cameo Connect

1 Registration card with serial number

1 Instruction manual

Send in your registration card as soon as possible or get registered via the internet on http://www.terratec.net/register.htm. This is important for support and hotline.

Safety note:

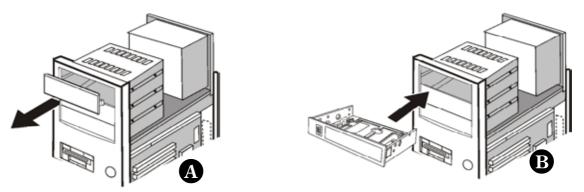
Disconnect the power cord from your computer's power supply and the electrical socket before opening the enclosure!

And now... step by step:

- Shut down your computer and all connected peripheral components, like printer and monitor. Ensure the power is switched off at the mains supply socket. Leave the power cord connected first, so that your computer is earthed.
- Touch the metal plate on the rear side of your computer to ground yourself and discharge any static electricity. Remove the power cord.
- Remove the cover of your computer.
- Look for a free PCI expansion slot, remove the screw that holds the slot's bracket and remove the bracket. To guarantee the best operation of your Cameo 200 RT, choose a slot that is not next to a card already installed.
- Unpack the Cameo 200 RT PCI card carefully. Only touch the card's edges, while the other hand should rest on the metal surface of your computer, ensuring that the electrostatic discharge flows into the computer without damaging the card. Never touch the components on the card's surface.
- Adjust the bracket of the Cameo 200 RT to the slot, so that the card's PCI connector exactly fits to the socket of the slot.
- Apply the card to the slot. You may have to use a little force to make sure that it is connected correctly.
- Now attach the Cameo 200 RT with the screw of the PCI slot's bracket.

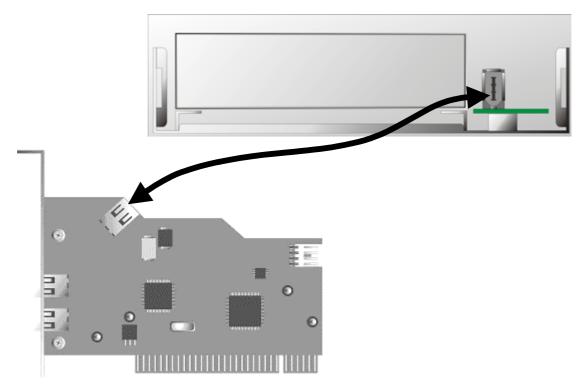
Installation and connection of the Cameo Connect

For installing the Cameo Connect, remove one of the 5,25" front blanking brackets of your computer's enclosure (A). Existing shielding sheet metal in the expansion slot must also be removed. Push the Cameo Connect module into the free slot (B).

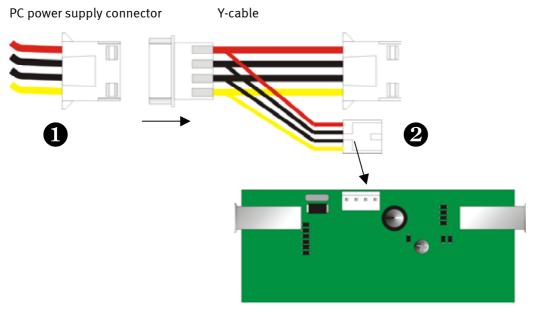


Attach the front module to the computer's enclosure, using the supplied screws.

Connect the internal FireWire[™]-connector of your Cameo DV PCI-card to the connector of the Cameo Connect front module as shown in the illustration below, using the supplied (short) FireWire[™]-cable.



If you wish to connect external components, that do not have an independent power supply, we recommend you connect the computer's power supply to the Cameo Connect. 1. Plug in a power connector of the computer's power supply to the female connector of the supplied Y-cable (see Illustration), 2. Connect the small connector of the Y-cable to the corresponding connector of the Cameo Connect front module.

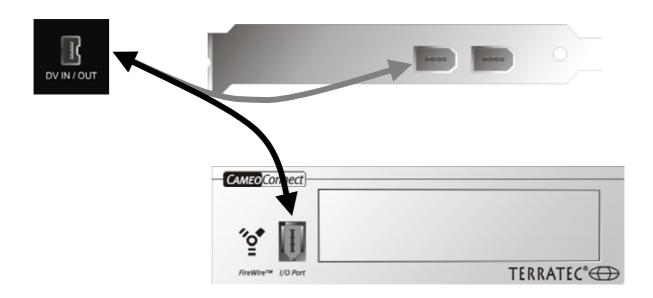


.....Cameo Connect

- Re-install the cover.
- Re-connect the power cord and all other cables and restart your computer.

The power connector MUST be connected correctly to the Cameo Connect front module, otherwise the module and other components of your system may be damaged.

Connection of a DV – Camcorder



Your camcorder has a female connector, indicated with "DV IN", "DV IN / OUT" or "iLink". Apply the smaller connector of the FireWire" cable to the camcorder's connector and the larger connector to the Cameo PCI card or to the "I/O port" on the front side of the Cameo Connect front module.

Connection of additional FireWire[™]-components

In addition to DV camcorders, there are other FireWire[™]-devices that may be operated with a Cameo 200 RT. These are, for example, FireWire[™]-hard disk drives, - CD-ROM- or DVD drives, - printers etc. You may connect and operate up to 63 of these devices simultaneously.

When connecting other FireWire[™]-components, please refer to the corresponding instruction manuals!

Installation of drivers

If you are using Windows ME, Windows 2000 or XP, you may skip this section and continue reading on page 16 (Windows ME) or page 18 (Windows 2000/XP).

Before starting the installation under Windows 98 SE, you should check, whether you are really using the second edition of Windows 98 on your computer. Open the "device manager", proceeding as follows:

Click "Start" -> "Settings" -> "Systems Manager" -> "System".

System Properties	×
General Device Manager Hardware Profiles Performance	
System: Microsoft Windows 98 Second Edition 4.10.2222 A Registered to:	
Computer: AuthenticAMD AMD Athlon(tm) Processor 128.0MB RAM	
OK Cancel	

Please note that Windows 98 SE has many improvements in comparison to the first version of Windows 98 and is absolutely necessary for editing DV or DVD videos.

If your system runs with the first version of Windows 98, we strongly recommend you to upgrade to Second Edition. Upgrades from Windows 98 to Windows 98 SE are available at your local retailer and will protect you from major problems, in your objective of performing video editing.

Installation using Windows 98 SE

Disconnect your camcorder from the Cameo 200 RT during the driver installation process.

When you have installed the Cameo 200 RT and have started your computer, Windows 98 SE will automatically detect the card as a new hardware device and will display the following screen.



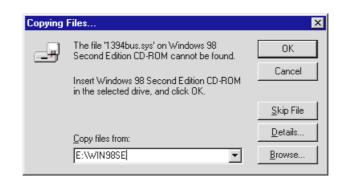
Click "Next". The following message will appear:



Don't choose any of the options and remove all check marks, which may have already been set. Insert the Windows 98 SE installation CD and again click "Next".



If you see the message above, you must tell Windows, where to look for the CD. If you click "OK", the next window will appear:



In the section "Copy files from:", enter the path of the Win98SE folder on the installation CD. (E: in the example above refers to the drive letter where your Windows 98 SE CD is inserted). You may also click "Browse" to search for the file.

Add New Hardware Wi	zard
	 What do you want Windows to do? Search for the best driver for your device. [Recommended]. Display a list of all the drivers in a specific location, so you can select the driver you want.
	< <u>B</u> ack Next > Cancel

If Windows has found the necessary files, select "best drivers (recommended)" and click "Next".

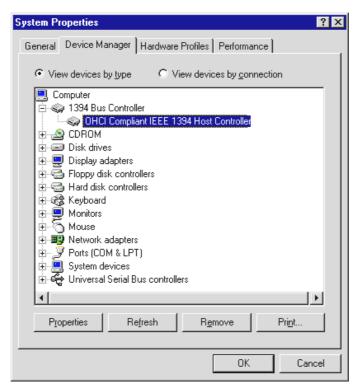
To complete the installation you should click "Finish" in the final window.

Windows will now install the drivers for you. This should be all for the moment. However, if you should receive a message, telling you to do something, pressing "Enter" normally is the best thing to do.

After having completed the installation successfully, we recommend you to install DirectX 9. For more information, read page 19.

When the drivers are installed.

After having completed the installation successfully, you should check the status of your Windows 98 SE system. Open the device manager to see the installed and detected hardware components of your computer. To open the device manager, select "System" from the control panel and click on "Device Manager"



Once the camera is installed and initialised, the Plug-and-Play function will indicate it in the device manager.

System Properties ? 🗙
General Device Manager Hardware Profiles Performance
View devices by type O View devices by connection
Computer 1394 Bus Controller CDROM Display adapters Floppy disk controllers Floppy disk controllers Hard disk controllers Microsoft DV Camera and VCR Keyboard Monitors Ports (COM & LPT) Sound, video and game controllers System devices
Properties Refresh Remove Print
OK Cancel

Installation using Windows ME

Disconnect the camcorder from the Cameo 200 RT during the driver installation process.

Once you have installed the Cameo 200 RT PCI card and re-started your computer, Windows ME will automatically detect the card as a new hardware component and display the following window:



Next, this dialog window will appear.

Add New Hardware Wizard		
	Windows has found the following new hardware:	
	OHCI-kompatibler IEEE 1394 Host Controller	
	Windows can automatically search for and install software that supports your hardware. If your hardware came with installation media, insert it now and click Next.	
	What would you like to do?	
	Automatic search for a better driver (Recommended)	
	Specify the location of the driver (Advanced)	
, in the second s		
	< <u>B</u> ack Next > Cancel	

Click "Next" and the following window will be displayed:

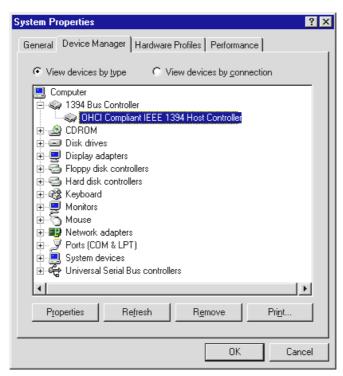
To complete the installation, click "Finish".

Windows will now install the drivers for you. This should be all for the moment. However, if you should receive a message, telling you to do something, pressing "Enter" normally is the best thing to do.

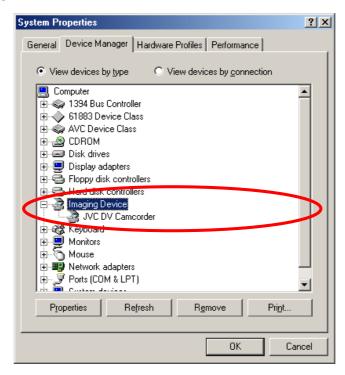
After having successfully completed the driver installation, we recommend you install DirectX 9. For more information, read page 19.

When the drivers have been installed.

After the driver installation has been completed successfully, you should check the status of your Windows ME system. Open the "Device Manager" to see all installed and detected hardware components of your computer. To open the device manager, click "System" at your control panel and select "Device Manager".



Once you have connected and started your camera, the Plug-and-Play function will indicate it in the device manager.



Installation using Windows 2000 or XP

Disconnect your camcorder from the Cameo 200 RT during the driver installation process.

Windows 2000 and XP offers the easiest installation, because all components which are necessary for DV editing, are already available. Drivers will be installed automatically without any requests.

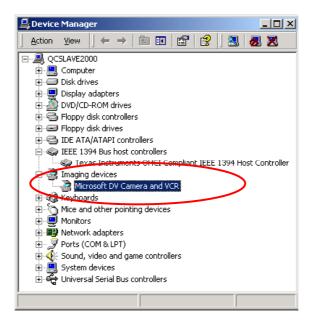
After having completed the driver installation successfully, we recommend you install DirectX 9. For more information, read page19. Check the installation once more in the device manager .



Click "Start ->Settings ->System Manager -> System" and select the registry "Hardware" followed by "Device Manager´".



When you have connected the camcorder it will appear in the above list under "Imaging devices"



Software installation

Inserting the Installation CD will automatically start the setup utility. If not, start the program **AUTORUN.EXE** manually in the main folder of the CD.

The setup utility will do a lot of the work for you. However, it cannot all be done automatically. For a complete installation, some points still must be considered.

Installation of DirectX 9

As often in the beginning, some things don't seem to work the way we want them to. With DirectX 9, Microsoft offers many improvements and patches, which are absolutely necessary for digital video editing. Please install DirectX first!

Installation of Ulead DVD VideoStudio 7 SE and MovieFactory 2 SE

Install DVD VideoStudio 7 and MovieFactory 2 SE from the installation CD. Simply follow the instructions provided.

We have provided extensive documentation for both aplications on the installation CD.

Installation of Prodad Adorage Magic

The Adorage Magic effect package must be installed after the installation of VideoStudio 7, as the effects will be integrated into VideoStudio. Simply follow the instructions provided.

Record Videos in DVD - Format.

If you wish to record videos on VCD, SVCD or DVD, they must be recorded in MPEG format and must have a specified resolution. The following chart will help you to prepare your videos according to these requirements.

Media	Resolution	Framerat e	Data rate Video	Data rate Audio
DVD	720 x 576	25 fps	MPEG-2 4~8 Mbps Constant or variable Bit rate	Stereo, 48 kHz and 192~384 kbps MPEG Audio
SVCD	480 x 576	25 fps	MPEG-2 Variable Bit rate up to 2600 kbps*	32~384 kbps* MPEG-1 Layer 2
VCD	352 x 288	25 fps	MPEG-1 Constant Bit rate 1152 kbps	Stereo, 44.1kHz and 224 kbps MPEG-1 Layer 2

* Attention: The maximum overall data rate (audio and video) must not exceed 2750 kbps.

It is no Problem to capture directly in DVD-Format.

We hope you will enjoy using this product!

Appendix

You're not alone ...

We have put together this list of Internet links, which are hopefully of interest.

Links of camcorder Producers:

Canon

Germany	- http://www.canon.de
England	- http://www.canon.co.uk
France	- <u>http://www.canon.fr</u>
Italy	- <u>http://www.canon.it</u>
Spain	- <u>http://www.canon.es</u>
Netherlands	- <u>http://www.canon.nl</u>

JVC

http://www.jvc-europe.com/JvcCons/

Panasonic

Germany	-http://www.panasonic.de
England	- <u>http://www.panasonic.co.uk</u>
France -	- <u>http://www.panasonic.fr</u>
Italy	- <u>http://www.panasonic.it</u>
Spain	- <u>http://www.panasonic.es</u>
Netherlands	-http://www.panasonic.nl

SONY

Germany	- http://www.sony.de
England	- http://www.sony.co.uk
France	-http://www.sony.fr
Italy	-http://www.sony.it
Spain	-http://www.sony.es

Netherlands - http://www.sony.nl

The following companies are offering activators for DV camcorders (to enable the DV-in feature):

http://www.como.com

Germany http://www.dv-in.de http://www.dvcut.de http://www.hifivideofachversand.de http://www.stonehead.de

Netherlands http://www.twintek.nl/dvwidget.html http://enable.dvin.org/

UK http://enable.dvin.org

Further links for digital video editing:

http://www.dvfilmmaker.com (Site in English dealing with DV video topics)

http://www.mainconcept.com (Producer of video cutting and composition programs as well as further useful software)

http://www.videox.net (Site in German)
http://www.slashcam.de (Site in German)

TerraTec service.

Even the best systems may experience problems or breakdowns. In this case, the TerraTec team will be pleased to help you.

Hotline, Mailbox, Internet.

In case of bigger problems, that cannot be solved alone, with the help of your retailer or this manual, contact us directly.

The Internet is the first way to look for help: Visit <u>http://www.terratec.net/</u>, where you find current answers to frequently asked questions (FAQ's) as well as up to date drivers, all available in our mailbox system. Phone numbers are: +49- (0) 2157-8179-24 (Analog) and +49- (0) 2157-8179-42 (ISDN).

If this still doesn't help you, please refer to our telephone hotline. You may also contact us online, visiting this page: <u>http://www.terratec.net/support.htm</u>. In both cases, keep the following information available:

- Your registration number,
- This instruction manual,
- A printout of your configuration files,
- The manual of your motherboard,
- A printed screenshot of your BIOS configuration.

It would also be good for you to sit next to your computer while calling our technicians, in order to try out some of the hints immediately. We strongly recommend you to note the name of the technician, when contacting our support team. You need this name, if your card is defective and must be returned.

Broken?!

Contact us, before your card is returned to us, note the name of the support technician and pay attention to the following points:

- Fill out the service card that comes with your product, completely and explicitly. The more detailed you describe the problem, the quicker it can be handled. Contributions without a description of the problem cannot be forwarded and will be returned at your expense.
- We strongly recommend you also send in a copy of the receipt or bill (not the original). If there is no copy included, we assume that the guarantee time has run out and will repair the card at your expense.
- Please use a safe and appropriately protective package. Goods damaged in transit cannot be repaired by us under warranty. Experience has shown, that the original package serves best for this purpose. Remember that your card is a fragile and sensitive electronic part.
- Put an appropriate postage on the package, just as we do, when returning your card..

General service regulations

1. General

With the purchase and the receipt of the product you accept our general service regulations

2. Proof of guarantee

To verify your proof of guarantee, we recommend you send in the receipt, bill or delivery note. Without any proof of guarantee we will repair the product at your expense.

3. Description of problem

Contributions without a description or with an incomplete description ("defect" or "to be repaired") will be returned and a fee will be charged as, this additional complication could have been avoided.

4. Invalid returns

In case of Invalid returns (no fault found, probably operational error), we will return the product and charge a fee.

5. Package

Please use the original package, when returning the product to us. Improper packing will endanger the warranty claim. Damages resulting from poor packaging during transport will invalidate the warranty claim.

- 6. Foreign manufactured products Products that have not been manufactured or distributed by TerraTec Electronic GmbH, will be returned and a fee will be charged.
- 7. Repairs liable to your expenseRepairs out of the warranty period are liable to your expense.
- 8. Transportation costs

The sender is responsible for the costs for transportation and insurance of products sent to TerraTec Electronic GmbH. In case of warranty, TerraTec is responsible for the costs of returning the product to the customer. Packages with no postage will be returned due to organizational reasons.

9. Final regulation

General service regulations of TerraTec GmbH are subject to changes without notice.

In all other respects the general trading conditions of TerraTec GmbH are considered as accepted.

Glossary

Activation – Due to the European customs regulations, the import of digital video recorders is more expensive than the import of digital video playback devices. For this reason, manufacturers of camcorders have started to modify their products for the European market by disabling the DV input. Some smart developers didn't take long to find ways to remove this limitation. This procedure is called "Activation". This activation is required to transfer video material from external sources to a DV camcorder. Activators are available for almost all types of camcorders, and can be bought legally at your retailer.

AVI – A Windows video format.

Bitrate – Indicates the amount of a data transferred per second. The higher the bit rate, the better the quality. There are two types of bit rates: Constant (e.g. for -> VCD) and variable (e.g. ->SVCD and -> DVD. In contrast to the constant bit rate, the variable bit rate is aligned to picture material.

Blue Screen – A Variation of -> Chroma Keying

Capture – Another word for recording.

Chroma Keying – Chroma keying uses a mono colored surface, to record, for example, an actor in front of it. When the recorded video is edited, the mono colored surface may be replaced by another background.

Chrominance – Chrominance indicates the color signal in ->YUV, which consists of two color components. U is the balance between red and cyan, while V is the balance between yellow and blue.

Clip – A small piece of video material.

Color saturation – Indicates the amount of color in a picture.

Composite Video – Composite Video is a transmission process used in the consumer section. It is processed over a cinch connector and is often used with TV sets. In this procedure, all signals (chrominance and luminance) are transmitted with only one cable. The Composite Video's quality is worse than, for example, in -> S-Video, where chrominance and luminance are transmitted separately.

CPU – Central Processing Unit. The part of your computer that actually calculates (I. E. Pentium or Athlon)

D8 – Digital 8 is the successor of Hi8 or the VHS-C format for camcorders. Though it is still recorded on Hi8 or D8 cassettes, it uses a digital DV format.

Data flow rate - see Data transfer rate

Data transfer rate – the data transfer rate indicates, how fast your hard disk drive can read or write continuously. The data transfer rate is measured in megabytes per second, e.g. 7 MB/s.

Device control – Indicates the possibility to control your DV camcorder from the computer.

DirectDraw – DirectDraw is a graphical standard initiated by Microsoft. Among other features it enables data to be written directly to the graphic card's memory space, to allow e.g. a seamless video display.

Dropped Frames – these are missing pictures in the video data flow, mainly caused by slow hard disk drives.

DV – DV is the abbreviation of Digital Video. The DV standard has a compression procedure of 5:1, which corresponds to a data rate of 3,125 MB/s and therefore can be handled by almost every hard disk drive. The DV quality standard is very high and is often used in professional productions. There are two types of DV cassettes, which differ in size and maximum play length, while their video data is compatible to one another. Mini DV is mostly used in the consumer section and offers tapes with a length of up to one hour. The DV format for professional use offers play lengths of up to three hours.

DVD – DVD is the abbreviation of Digital Versatile Disk. The diameter is the same as of a standard CD-ROM. At the moment, memory capacities from 4,7GB (DVD-5) to 17GB (DVD-18) and data rates from 600 to 1300KByte/s are specified. In addition there are various formats, like DVD-Video, DVD-Audio, DVD-ROM, DVD-R, DVD-RW and DVD-RAM.

DV-In – The DV connector of a camcorder usually is able to transfer video data in both directions – in and out of the camcorder. However, many of the E European camcorders do not provide the DV input option. See also -> Activation

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

Framerate – Indicates the number of pictures in specific time. Often measured in **FramesPerSecond**.

Half pictures – To avoid flickering when reproducing video signals on a TV screen, 50 half pictures per second are transmitted in stead of 25 whole pictures (in PAL standard. Half pictures are e either the uneven lines (transmitted first) or the even lines, displayed on the screen.

Hi8 – Analog video recording system, transmitting color and illumination separately, allowing a better quality as in example VHS-C.

Hosiden connector – A small connector with 4 poles to transmit ,in example, -> S video signals.

IEEE-1394 – Originally a Universal Bus system for digital data transfer, developed by Apple. Devices may be connected by cables with a length of up to 4, 5 m. This system offers data transfer rates of up to 400 Mbits/s. As there's is no specified data format for this system yet, a homogenous standard for video data is still missing. Sony has filled the gap with the "normative strength of the actual", by integrating FireWire[™] connectors into their own digital recorders. FireWire[™] and the Sony protocol have finally achieved seamless video editing.

Ilink – Sony's name for -> IEEE-1394

Interlacing – see half pictures.

Linear Editing - see Linear video cut

Linear video cut – The linear video cut originates in analogue video. Original video data is mostly available in the same order as edited video clips. A simple way of linear cutting is, for example, the transmission from an analogue video camera to a video recorder and the simultaneous erasure of some clips. If you wish to insert, for example, a new video clip at the middle, all following clips must be cut again.

Luma Keying – In opposition to Chroma Keying, in Luma Keying the video transparence is determined by the illumination.

Luminance – Luminance indicates illumination in -> YUV. (Y)

Main memory – See RAM

MiniDV – the consumer version of the DV-format. See also –> DV.

MiniDVD – Indicates a procedure, where -> DVD data with a corresponding registry structure and a navigation menu is copied to conventional CD. Due to the small memory space, a MiniDVD can only store 18 minutes of video data. Unfortunately, only a few DVD players can play MiniDVD, so that for the creation of a MiniDVD, a reproduction on a computer is recommended.

MJPEG – Motion JPEG is a compression procedure, where every picture 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, setting new standards like MPEG-1 or MPEG-2.

Non-linear Editing - see Non Linear Video Cut

Non-linear video cut – In contrast to the -> linear video cut, this procedure allows you to edit video clips without influencing the following clips. The non-linear video cut enables you, for example, to shorten a clip at the beginning of a video project without having to edit the following video clips again.

NTSC – NTSC is a video standard which is used, for example in Japan or the USA. NTSC offers a higher frame rate than PAL (30 pictures or 60 -> half pictures per second, but uses a lower resolution (525 lines, of which 480 are visible). The color display in the NTSC standard is indicated in ->YIQ.

Overscreening – Indicates the soft effective transition from one video clip to another.

PAL – PAL is the most common video standard in Europe. The frame rate of PAL is 25 pictures per second (or 50 ->half pictures. The color display in PAL is indicated in ->YUV.

Preview – the preview offers you a practical overview of your work. The final quality is usually better than the quality of a preview.

RAM – Random Access Memory is your computers main memory. Video editing with the use of effects requires a lot of main memory, so: The more RA M you have, the better it is.

Rendering – Indicates the re-calculation of video and audio clips, after having changed them, for example, by using filters or effects.

RGB Color space – In the RGB color space, every visible pixel consists of the three components R(ed), G(reen) and B(lue).

Saturation – see Color saturation

Screen – see Overscreening

Storyboard – In contrast to -> Timeline, the Storyboard offers a topical overview of your video project's order. Individual scenes can be identified easily, with the lack of a relation to the real length of a project.

SVCD – Abbreviation for Super Video CD. SVCD resembles a ->VCD with the advantage, that the data is available in a MPEG2 format with a -> variable bit rate. In addition, the resolution of 480 x 576 pixels exceeds the resolution of a VCD. A SVCD can usually store 45 to 50 minutes of video. The bit rate (audio and video) of a SVCD must not exceed 2,6 Mbps. Most pure DVD players can replay the SVCD.

S-Video – In contrast to -> Composite Video, chrominance and luminance of the video signal are being transferred separately and therefore offer a higher quality.

Timeline – Timeline is a time axis on which you edit and position your video clips

Transition - See Overscreening

Trim - Indicates the cutting of a video at the beginning or end

VCD – Abbreviation for Video CD. A Video CD offers a PAL resolution of 352 x 288 pixels and uses the MPEG1 format for saving video and audio data. The VCD uses a constant bit rate of 1,15 Mbps for video and 224 kbps for audio data. Almost every DVD player can replay a VCD.

Video filter – Video filters allow you to edit your video material in many ways. You may, for example, use video filters to change colors and use complex filters to decrease the quality of your best videos and let them look like an old silent movie.

Video for Windows – A video concept for Windows, aged, but still frequently used.

YIQ – YIQ is a color space related to -> YUV. It is equally determined by an illumination component -> Luminance (Y), but by different color components, called I (Cyan Orange Balance) and Q(Magenta Green Balance). YIQ is, for example, used with -> NTSC.

YUV – A color space, that is determined by an illumination component (-> Luminance-Y) and two color components (-> Chrominance- U,V).