

# Magic DVD Rip Studio

Magic Software Corporation  
<http://www.magic-video-software.com>

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## Introduction



**Magic DVD Rip Studio** provides a fast and easy way to copy your DVD movies onto your hard drive. It enables you to watch and copy DVD movies on any DVD drive!

Magic DVD Rip Studio is an professional DVD ripper software designed to convert your favorite DVD movies to popular video formats including MPEG-1, MPEG-2, AVI (DivX, XVID, MP43, YUV...), DVD NTSC Long Play, etc. With a very easy-to-use interface, you can also convert VOB and IFO files into these formats.

In addition, the intuitive interface makes DVD Rip Master the perfect tool for both new and experienced users. It supports batch file converting. Magic DVD Rip Studio allows you to adjust volume, size and more!

We express thanks to all the people who have contributed greatly to this software project. They are: Kevin V, Arthur Q, Windy J, Ella H, Deane T, Michael T, Dirk W, Laurent F

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## Why Magic DVD Rip Studio?



### All in one tool

Magic DVD Rip Studio supports a wide range of formats: AVI , MPEG1, MPEG2, etc.



### Easy-to-use

With a step-by-step manual, the software will make the task of converting video files a breeze.



### Save time

With the latest technology, it is outstanding both in **speed** and in **visual quality**, and helps you make a better DVD in less time! The **easy-to-use** interface also helps you catch on to the system quickly. According to surveys, Magic DVD Rip Studio saves **35%** of your time in converting DVD formats.



### Save money

With the ability to convert a wide range of formats, Fox Video Capture/Convert/Burn Studio is **your one-way ticket** to video conversion. The **powerful upgrades** frequently offered from Magic **reduces the continuous investment of software updates**

Yours for only \$24.95!

**BUY NOW**

## What you will have after purchasing this product:

### **Full version of Magic DVD Rip Studio**

The possibilities of the full version of Magic DVD Rip Studio are endless. There are no ads in the full version and you can have fun with unlimited multi-media production.

### **Registration Codes**

After your purchase, you can get your own registration codes and have all services from Magic Software.

### **Lifetime License**

Free online upgrades for life.

### **More Discounts**

Great benefits for our customers, such as coupons for other products from Magic Software. See more in the [Discount Center](#).

### **Excellent Customer Care**

We are pleased to offer quick and high-quality customer care to meet your service needs.

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## How to buy Magic DVD Rip Studio

- 🔗 [Why Magic DVD Rip Studio?](#)
- 🔗 [What will I have after purchasing?](#)
- 🔗 [Is my order secure?](#)
- 🔗 [Order Now](#)

You can purchase Magic DVD Rip Studio securely through the web using [ShareIt](#). It is fast, simple and secure!

**Buy it for only 24.95\$! After a few simple purchase steps, you will have Magic DVD Rip Studio with all the functions, a lifetime license and powerful service!**

Click the BUY NOW button below to purchase it. Then carefully fill in and submit the order form that follows.



As soon as you make your order, [ShareIt](#) will verify it. Your order will most likely be processed in 1 hour, but in some VERY rare cases it may take [ShareIt](#) more than 24 hours to process your payment.

A registration key will be automatically generated at our server and e-mailed to you immediately after we receive payment confirmation from [ShareIt](#).

Please don't worry if you don't receive the registration information right away. Delays usually occur due to the high security settings of spam filters used by our clients. Our message may be rejected as a spam message by the mail service you use.

If you haven't received the registration message within several hours, feel free to contact our [Support Team](#) via email.

If you have questions concerning our software, please send e-mail to: [support@magic-video-software.com](mailto:support@magic-video-software.com).

**We will always do our best to help you!**

## Why Magic DVD Rip Studio?

### ➤ Save time

- It is outstanding both in **speed** and **visual quality**.
- The **easy-to-use interface** helps you catch onto the system quickly.
- According to surveys, it saves **35%** video conversion time.

### ➤ Save money

- It is your **one-way ticket** to video creation and conversion.
- 30-day money-back** guarantee if you are not satisfied with it!

### ➤ All in one tool

Whether you are converting DVD to **AVI (DivX, XVID,MP43,YUV...)**, **VCD (MPEG1)**, or **SVCD (MPEG2)**, the Magic DVD Rip Studio does it all.

### ➤ Easy-to-use

With the step-by-step manual, enjoyable interface and **one-click process**, you will greatly enjoy your Magic DVD Rip Studio multimedia experience.

**BUY NOW**

## What will you have after Purchase?

- **Full version of Magic DVD Rip Studio**

Fun with unlimited functions and video converting.

- **Lifetime license**

Free online upgrades with the [Lifetime Upgrade Policy](#).

- **Customer care**

We are pleased to offer our care to meet your needs. We promise that any customer questions will be replied within **1** business day!

- **Coupons for Magic Software products in Discount Center**

More benefits for our customers can be found in the [Magic Software Discount Center](#).

**BUY NOW**

## Is my order secure?

As we have for years, we promise the most secure purchases.

Magic Software partners, [ShareIt](#) and [RegNow](#), have passed strict certification. We truly believe that 'Only by benefiting our customers can we benefit ourselves'. The security of your purchase from Magic Software is our top priority! Magic Software has been involved in E-commerce for years, during which we have built up a secure online shopping system. You can enjoy the speed and convenience we offer.

**BUY NOW**

## The user interface (Overview)



### 1. Main Panel

Contain buttons that correspond to main functions.

### 2. Show Window

Display information of Output Files.

### 3. Edit Buttons

Select and edit files for Input and Output. All information exists in the Show Window.

### 4. Rip Button

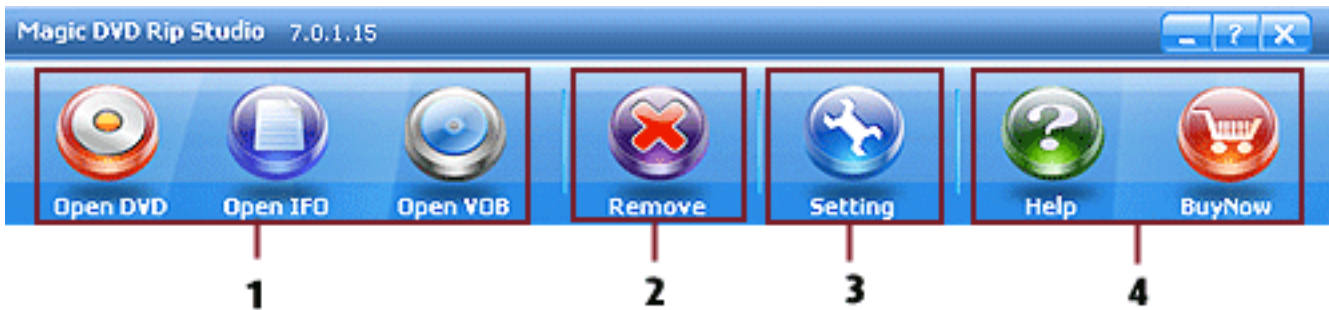
Start DVD conversions after confirming Input, Output and Convert Formats.

**5.Preview Window**  
Live preview during ripping.

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## Main Panel



### 1. Formats Button

Select the "**Open DVD**" button, and you can open .IFO and .VOB files;  
Click the "**Open IFO**" button, and you can open .IFO files only;  
Click the "**Open VOB**" button, and you can open .VOB files only.  
If you don't know what ".IFO" and ".VOB" are, please [click here](#).

### 2. Remove Button

Click this button to delete a selected task in the task list. You can also delete a task or all tasks through the right-click menu.

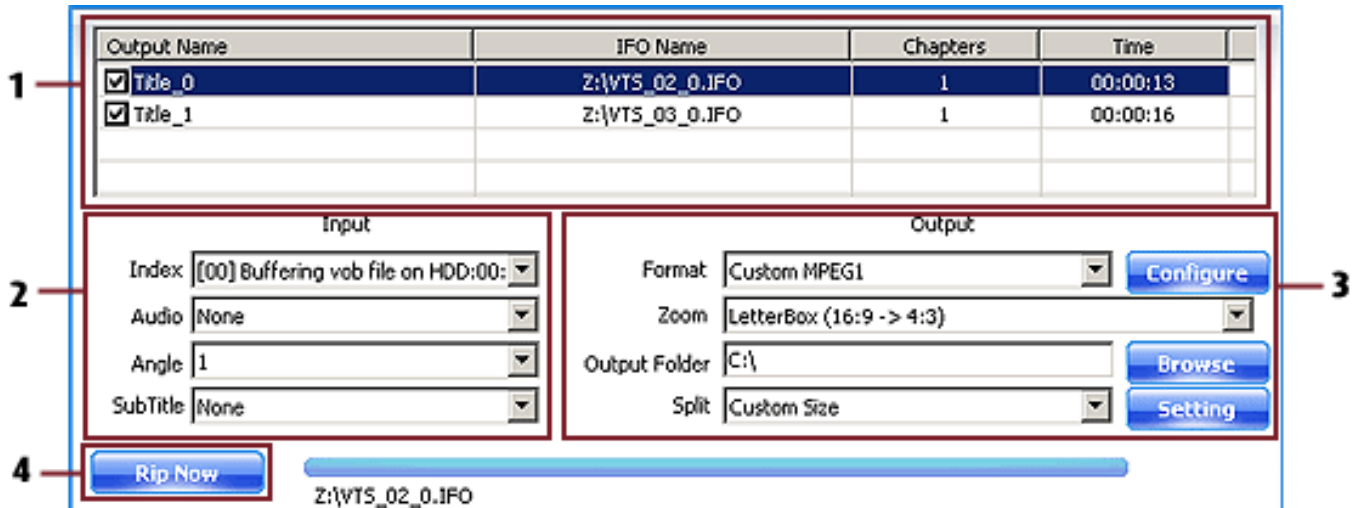
### 3. Setting Button

Allows you to configure advanced settings, such as file split mode, AVI Codec, resolution, etc.

### 4. Additional Button

Select a button to read the Help File or register Magic DVD Rip Studio.

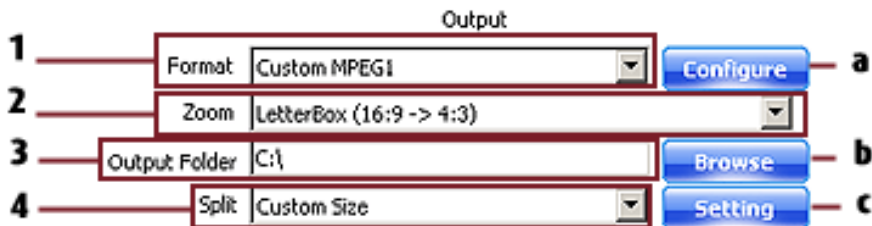
## Edit Buttons & Show Window



The Show Window expresses the edited result of the Edit Buttons.

- 1: Displays the output name, IFO Name, Chapters, and Time.
- 2: Displays the input file's information .
- 3: Displays the output file information and edit buttons.
- 4: Click "Rip Now" after confirming Input, Output and Convert Formats.

## Output Window

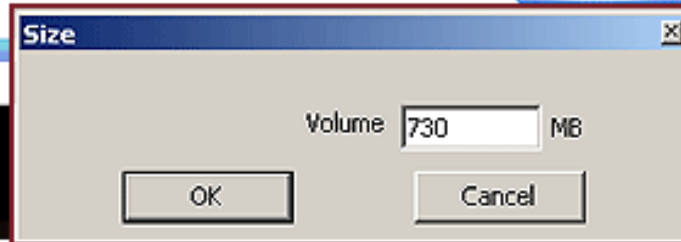


- 1: select an output format: MPEG1,MPEG2,AVI, etc.
- 2: select your zoom: full (16:9 or 4:3), letterbox (16:9 or 4:3),...

- a) **Configure**: Customize output settings. You can output your file here.
- b) **Browse**: Select the Output Directory. One or all output videos will be directed to this folder. Show Window(3).
- c) **Setting**: Select Custom Size in Window 4 to edit your data. The "setting" button will appear blue if your data does not need editing.



**choose other options**



**only opt for "custom size"  
you can edit your data**

## Set Profile

**Set Profile** is a tool with which you can set several parameters of your output files. If you need a professional video output, you can customize the output settings in "profile editor". It is highly recommended that you use the default settings.

Video settings for different video formats can be selected from "Output Format".

### **Set the MPEG Profile**

[General Window;](#)

[Global Window;](#)

[MPEG Specific Window;](#)

### **Set the AVI Profile**

[General Window;](#)

[Global Window;](#)

[AVI Specific Window;](#)

### **[Set Property](#)**

## **What are MPEG and AVI video formats?**

### **MPEG**

MPEG stands for 'Moving Pictures Experts Groups'. It is a group working under the directives of the International Standards Organization (ISO) and the International Electro-Technical Commission (IEC). MPEG is a committee of experts from the audio, video and computer industries developing an evolving series of standards for the compression of moving images.

MPEG-1 defines a framework for encoding moving video and audio, significantly reducing the amount of storage with minimal perceived difference in quality. The MPEG-1 video compression method uses the previous frame's information in order to reduce the amount of information the current frame requires. In addition, the audio encoding uses something called psychoacoustics - compression removes the high and low frequencies a human ear cannot hear.

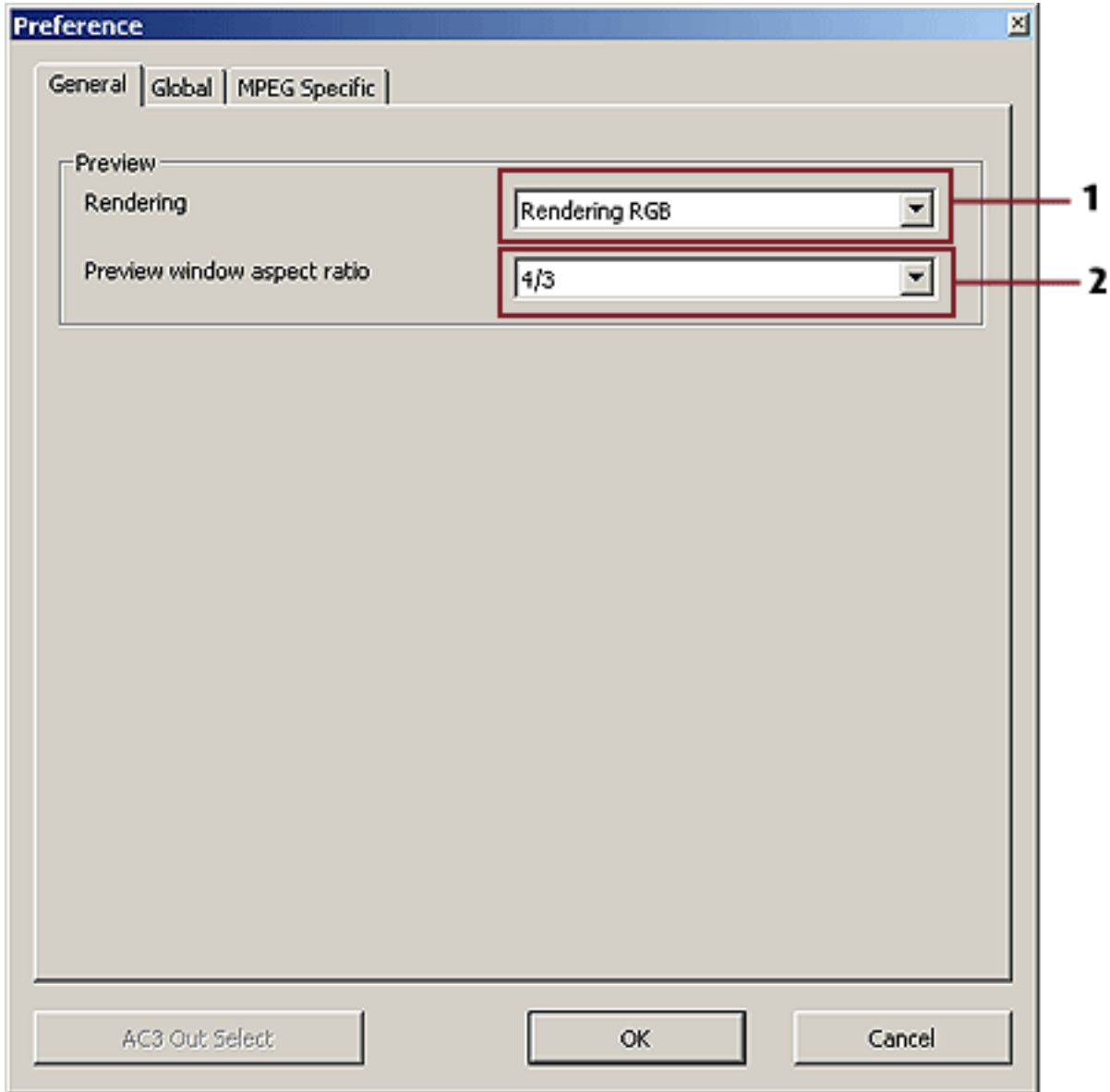
MPEG-2 is not a successor to MPEG-1, but rather an addition - both of these formats have their own purposes. MPEG-1 is a relatively low-resolution format currently used in VCD and the World Wide Web for short animated files. The MPEG-2 is a much higher resolution format developed for digital television and used in DVD.

### **AVI**

AVI stands for Audio Video Interleave. This is a container video format that specifies how the audio and video streams should be stored within the file. AVI itself doesn't specify how it should be encoded (just like the streaming format ASF), so the audio/video can be stored in very various ways. The most commonly used video codecs that use AVI structure are M-JPEG and DivX. AVI contains code called FourCC, which specify the format in which the codec has been encoded.

## General Window

### General Window



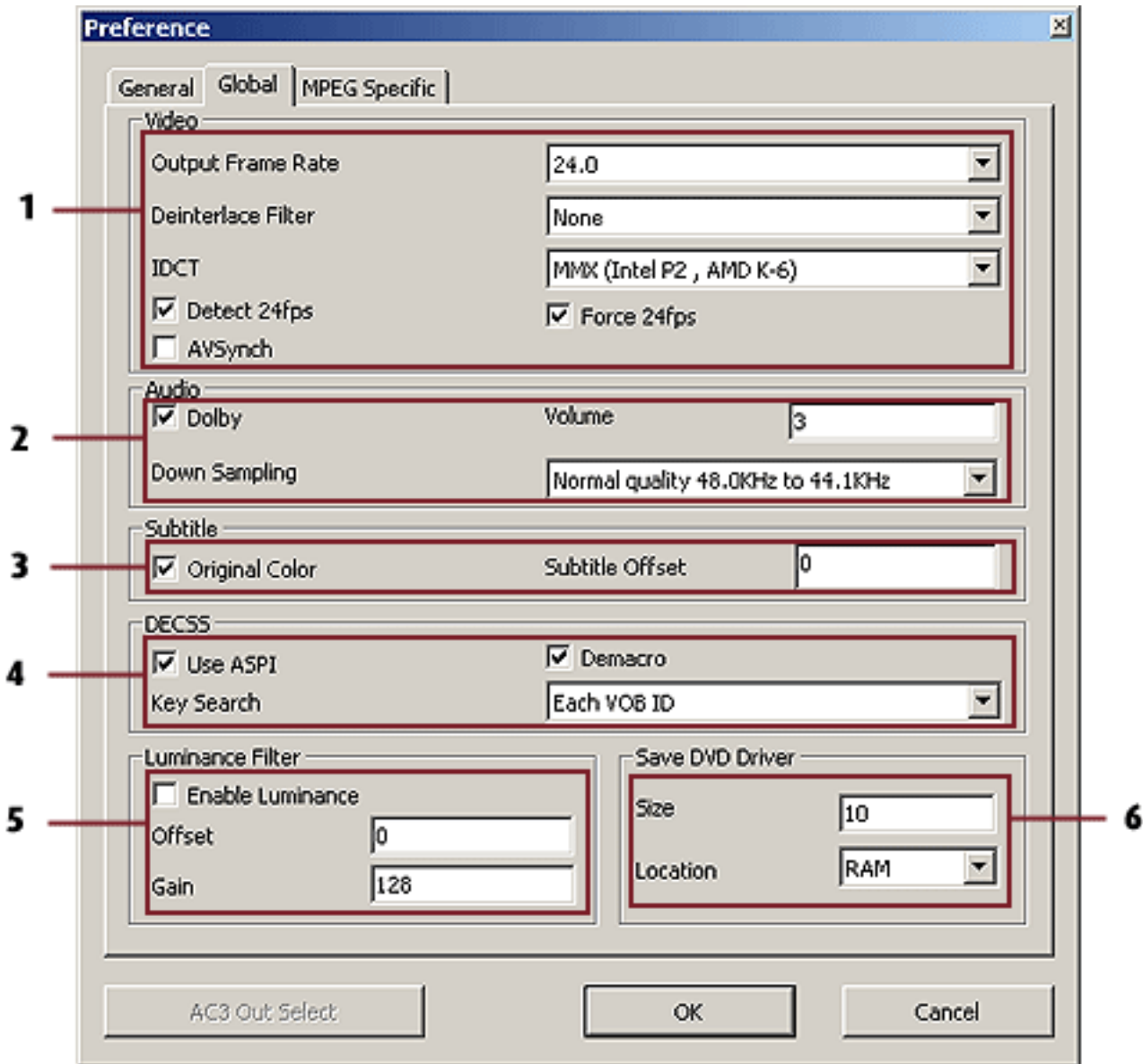
#### **1. Rendering**

Supports two rendering modes: RGB and YUV. Choose one from the drop down list.

#### **2. Preview Window Aspect Ratio**

Choose a ratio aspect from the drop down list.

## Global Window



1. Customize video settings.

2. Customize audio settings.

3. Customize subtitle settings.

### 4. DeCSS

"DeCSS" is important for ripping DVD movies.

**DeMacroVision:** Check the box "DeMacroVision."

**Key Search:** Select the Key Search from the drop list on the right.

**Use ASPI:** Check the box "Use ASPI" if you have an ASPI driver.

### 5. Luminance Filter

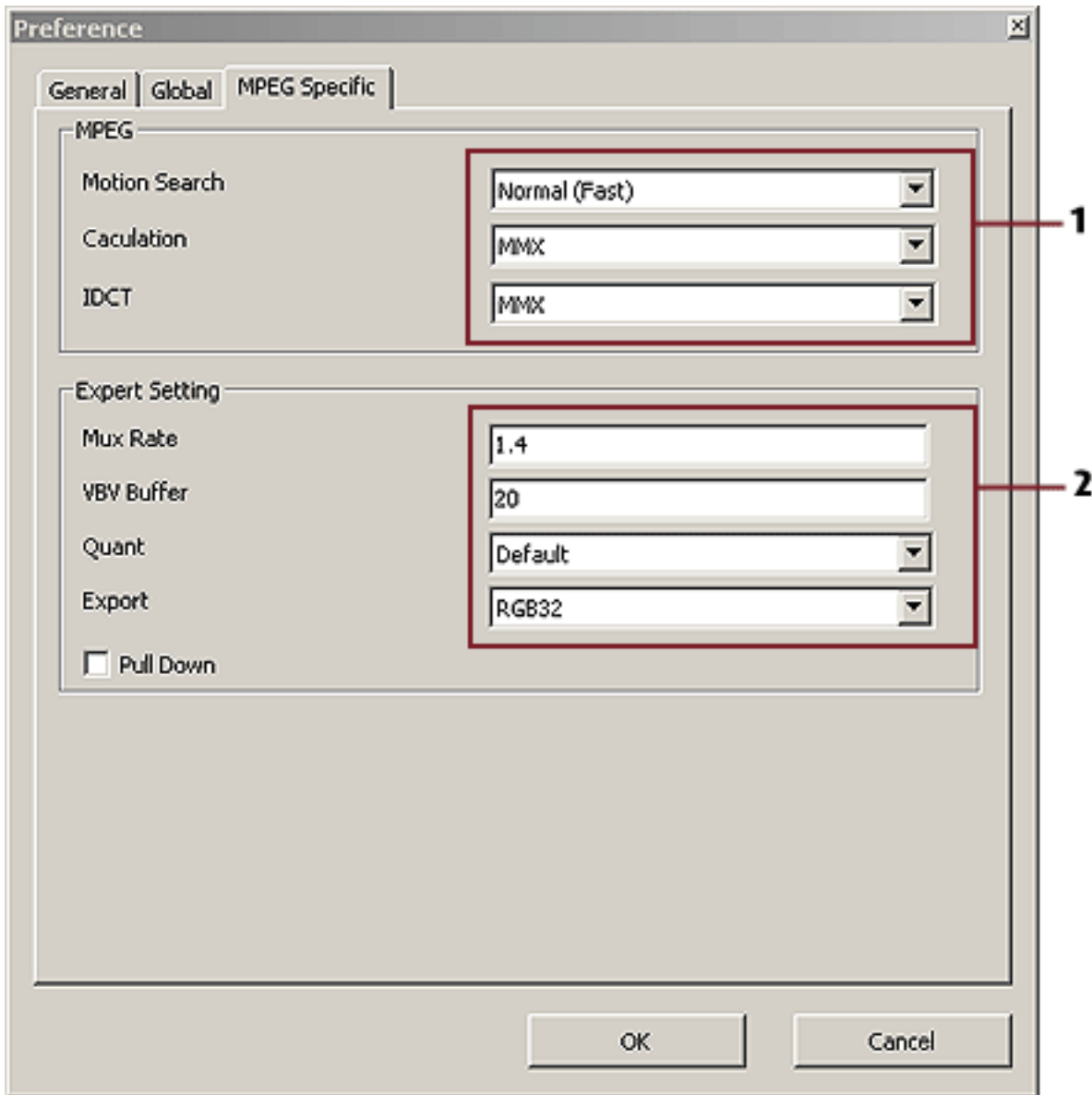
The higher figure you set in Gain, the higher luminance will be

**6. Save DVD Diver**  
You can save on RAM or HD.

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## MPEG Specific Window



### 1.MPEG Specific

Customize project preferences in the drop lists. The encoded results might be slightly affected, however, so the default setting is highly recommended.

### 2.Expert Setting

The default setting gives good results for most DVDs.

#### Reference:

[calculation](#)

[IDCT](#)

[buffer](#)

#### calculation

A calculation is a deliberate process for transforming one or more inputs into one or more results.

**IDCT**

IDCT is an acronym for Inverse Discrete Cosine Transform, a transformation step commonly used in software that works with different multimedia formats such as MP3, Vorbis, MPEG or JPEG.

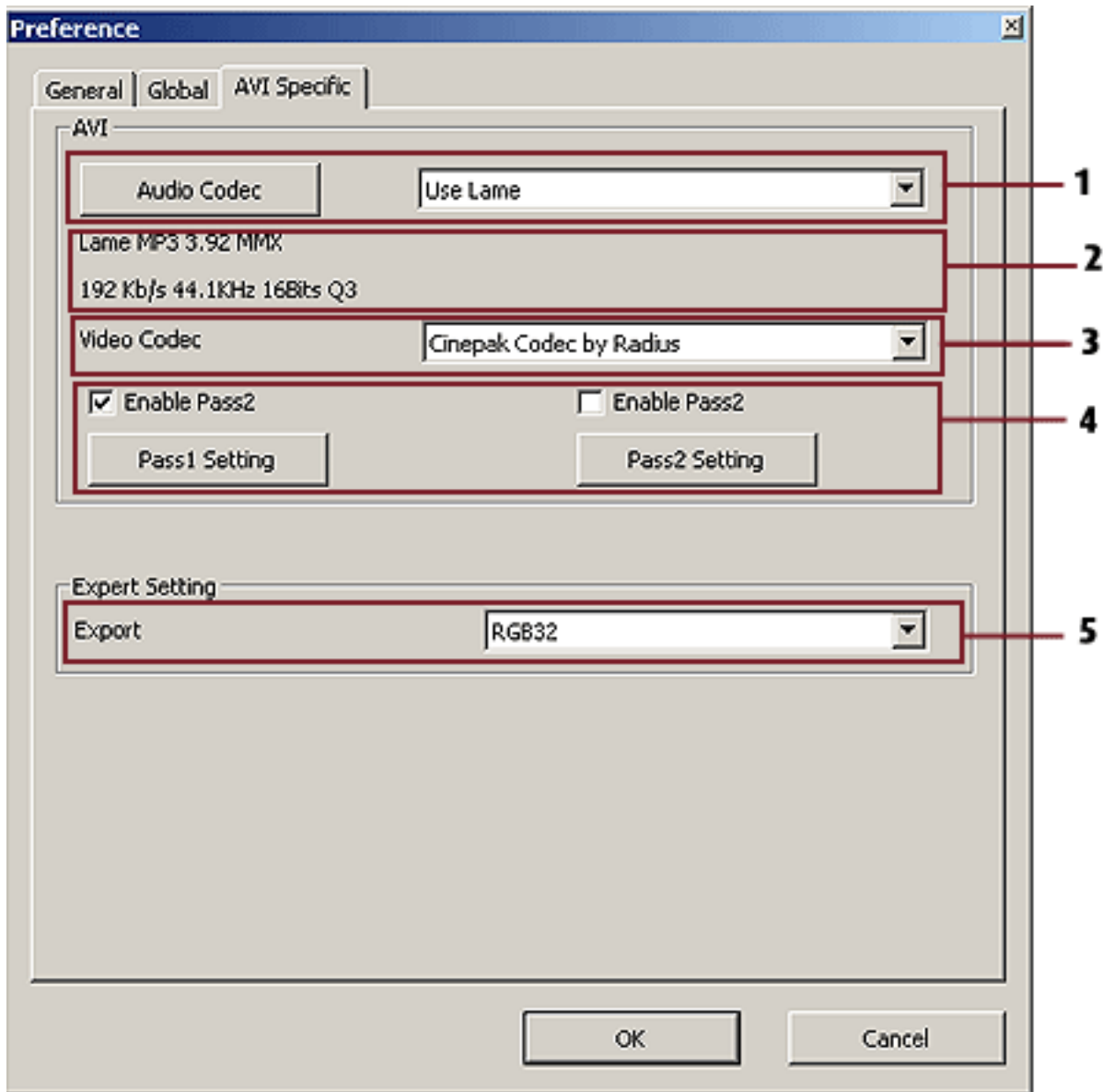
**buffer**

The buffer is the basic editing unit; one buffer corresponds to one text being edited. You can have several buffers, but at any time you are editing only one, the `current buffer,' though several can be visible when you are using multiple windows (qv). Most buffers are visiting (qv) some file.

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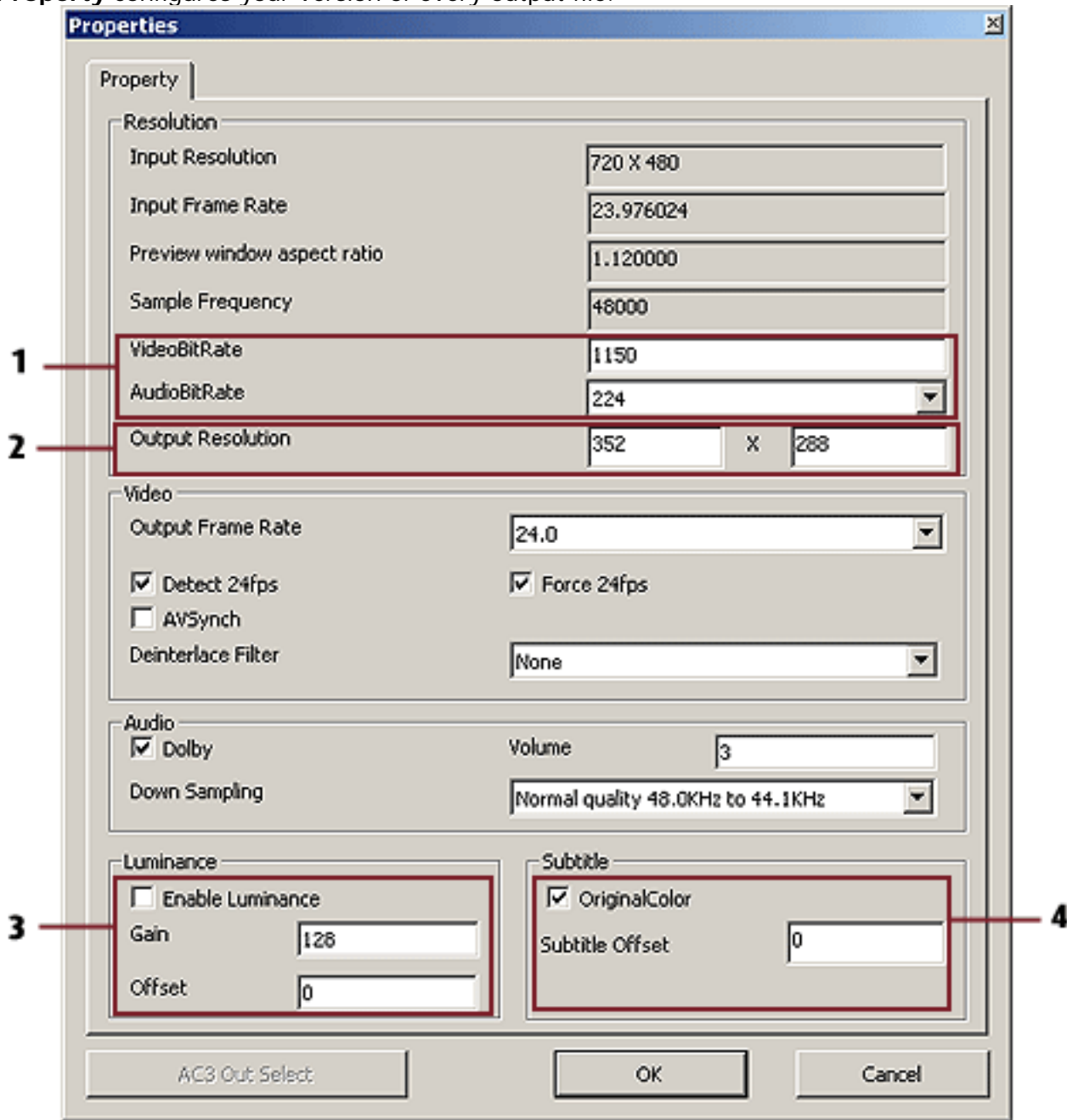
## AVI Specific Window



1. Select Audio Codec setting from the drop down list. (Disable, Store to Wav, Use Lame, Use ACM)
2. Displays Audio Codec Selection.
3. Select a Video Codec setting from the drop down list.
4. Select Pass1 or Pass2 Setting.
5. Default settings are highly recommended.

## Property Window

**Property** configures your version of every output file.



1. Adjust the settings of output file.
2. Change Output Resolution.
3. The higher figure you set in Gain, the higher luminance will be.
4. Customize subtitle settings.

## To rip your DVD to MPEG

Magic DVD Rip Studio is the best, fastest and easiest way to rip DVDs to different formats. Learn how to rip DVDs to MPEG1/VCD here!

The screenshot shows the Magic DVD Rip Studio 7.0.1.15 interface. A red box labeled '1' highlights the 'Open DVD', 'Open IFO', and 'Open VOB' buttons. A table lists two titles: 'Title\_0' and 'Title\_1'. The 'Output' section shows 'Format' set to 'Custom MPEG1' (with a 'Configure' button), 'Zoom' set to 'LetterBox (16:9 -> 4:3)', 'Output Folder' set to 'C:\' (with a 'Browse' button), and 'Split' set to 'Custom Size' (with a 'Setting' button). A 'Rip Now' button is labeled '5'. A progress bar shows 'Z:\VTS\_02\_0.IFO' and a video preview window is at the bottom.

Output Name	IFO Name	Chapters	Time
<input checked="" type="checkbox"/> Title_0	Z:\VTS_02_0.IFO	1	00:00:13
<input checked="" type="checkbox"/> Title_1	Z:\VTS_03_0.IFO	1	00:00:16

Input: Index [00] Buffering vob file on HDD:00: Audio None Angle 1 SubTitle None

Output: Format Custom MPEG1 Zoom LetterBox (16:9 -> 4:3) Output Folder C:\ Split Custom Size

**Step 1:** Select input file.

Select file/s that you would like to convert by clicking the Open DVD ,Open IFO or Open VOB button. Change the output file name in the Output Name field by double clicking the output file name and entering a new one.

**Step 2:** Select "Custom MPEG1" in the Format box.

**Step 3:** [Set the MPEG Profiles](#) for output DVD.

**Step 4:** Select output file directory.

Click the Browse button to select a location for the output file.

**Step 5:** Click **Rip Now** to start ripping.

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## To rip your DVD to AVI ( DivX, Xvid,MP43,YUV, etc)

Magic DVD Rip Studio allows you to rip DVDs to different formats. Magic DVD Rip Studio is the best, fastest and easiest way to rip DVD files to different formats. Learn how to Rip DVDs To AVI (DivX, Xvid,MP43,YUV, etc) here!

The screenshot shows the Magic DVD Rip Studio 7.0.1.15 interface. At the top, there is a toolbar with buttons for 'Open DVD', 'Open IFO', 'Open VOB', 'Remove', 'Setting', 'Help', and 'BuyNow'. Below the toolbar is a table listing output titles. The table has columns for 'Output Name', 'IFO Name', 'Chapters', and 'Time'. Two titles are listed: 'Title\_0' and 'Title\_1'. Below the table are input and output settings. The 'Input' section includes 'Index', 'Audio', 'Angle', and 'SubTitle'. The 'Output' section includes 'Format', 'Zoom', 'Output Folder', and 'Split'. There are 'Configure' and 'Browse' buttons next to the 'Format' and 'Output Folder' fields respectively. At the bottom, there is a 'Rip Now' button and a progress bar.

Output Name	IFO Name	Chapters	Time
<input checked="" type="checkbox"/> Title_0	Z:\VTS_02_0.IFO	1	00:00:13
<input checked="" type="checkbox"/> Title_1	Z:\VTS_03_0.IFO	1	00:00:16

Input

Index: [(00) Buffering vob file on HDD:00:]  
Audio: None  
Angle: 1  
SubTitle: None

Output

Format: AVI (DivX, Xvid, MP43, YUV,...)  
Zoom: LetterBox (16:9 -> 4:3)  
Output Folder: C:\  
Split: 80 Min VCD

Rip Now

Progress bar: Z:\VTS\_02\_0.IFO

**Step 1:** Select input file.

Click the Open DVD ,Open IFO or Open VOB button to select the file you wish to convert.

**Step 2:** Select **AVI (DivX, Xvid,MP43,YUV...)** in the Format box.

**Step 3:** Click the Configure button to [Set the AVI Profiles](#) for the output DVD.

**Step 4:** Select output file directory.

Click the Browse button to select a location for the output file to be saved in.

**Step 5:** Click **Rip Now!** to start Ripping.

## How to rip various DVD files to different formats

The DVD ripper supports batch files processing. Select the desired chapters or videos to be converted and rip them one by one or simultaneously!

**Step 1:** Select the input and output directory.

**Step 2:** Select an input file and an output format from the drop down list. Set the corresponding profile and properties of selected files.

The screenshot shows the Magic DVD Rip Studio 7.0.1.15 interface. At the top, there is a toolbar with icons for 'Open DVD', 'Open IFO', 'Open VOB', 'Remove', 'Setting', 'Help', and 'BuyNow'. Below the toolbar is a table with the following data:

Output Name	IFO Name	Chapters	Time
<input checked="" type="checkbox"/> Title_0	Z:\VTS_02_0.IFO	1	00:00:13
<input checked="" type="checkbox"/> Title_1	Z:\VTS_03_0.IFO	1	00:00:16

Below the table, there are two sections: 'Input' and 'Output'. The 'Input' section has dropdown menus for 'Index' (set to '[00] Buffering vob file on HDD:00:'), 'Audio' (set to 'None'), 'Angle' (set to '1'), and 'SubTitle' (set to 'None'). The 'Output' section has dropdown menus for 'Format' (set to 'Custom MPEG1'), 'Zoom' (set to 'LetterBox (16:9 -> 4:3)'), and 'Split' (set to '80 Min VCD'). There are also text input fields for 'Output Folder' (set to 'C:\') and buttons for 'Configure', 'Browse', and 'Setting'.

**Step 3:** Select the second input file and output format from the drop down list. Set the corresponding profile and properties of selected files.



Open DVD



Open IFO



Open VOB



Remove



Setting



Help



BuyNow

Output Name	IFO Name	Chapters	Time
<input checked="" type="checkbox"/> Title_0	Z:\VTS_02_0.IFO	1	00:00:13
<input checked="" type="checkbox"/> Title_1	Z:\VTS_03_0.IFO	1	00:00:16

Input

Output

Index [00] Buffering vob file on HDD:00: ▾

Audio None ▾

Angle 1 ▾

SubTitle None ▾

Format AVI (DivX, XviD, MP43, YUV,...) ▾

Configure

Zoom LetterBox (16:9 -> 4:3) ▾

Output Folder C:\

Browse

Split 80 Min VCD ▾

Setting

**Step 4:** Click **Rip Now!** to start ripping.

## Tech FAQs

- ▶ [What are the recommended operating system configurations for Magic DVD Rip Studio?](#)
- ▶ [What are the system requirements for Magic DVD Rip Studio?](#)
- ▶ [How can I get rid of the message in the middle of the finished movie?](#)
- ▶ [I lost my registration password and I want to reinstall Magic DVD Rip Studio. What should I do now?](#)
- ▶ [My computer DVD player handles my newly converted DVD files, but my home DVD player won't take them!](#)
- ▶ [I'm trying to find a video converter to convert wmv and/or mpg to asf, so that I can stream it with a Windows Media Server. Does your software do this?](#)
- ▶ [I've installed the latest version of Magic DVD Rip Studio. Do I have to register it again? How can I figure out if the registration is complete or not?](#)
- ▶ [Is there a user guide or manual available for this software?](#)
- ▶ [Does your product support Windows Media 9?](#)
- ▶ [What are audio and video codecs?](#)
- ▶ [What video formats are supported by Magic DVD Rip Studio?](#)
- ▶ [What is bitrate?](#)
- ▶ [What is frame rate?](#)
- ▶ [My Windows Media Player will not play my newly converted DVD file. What should I do?](#)
- ▶ [What can I do with Magic DVD Rip Studio?](#)
- ▶ [How to report bugs?](#)
- ▶ [How much is Magic DVD Rip Studio?](#)
- ▶ [What is VBR?](#)
- ▶ [What is Windows Media Format?](#)
- ▶ [Is Technical Support provided?](#)
- ▶ [How do I find out about new software updates?](#)
- ▶ [I changed my E-mail address. What should I do?](#)
- ▶ [Will I get a hardcopy \(CD\) for the software I purchased?](#)
- ▶ [How can I reinstall the program?](#)
- ▶ [How do I uninstall Magic DVD Rip Studio?](#)
- ▶ [Do you produce a version of Magic DVD Rip Studio for the Mac?](#)
- ▶ [Can you tell me more about downloading from your website?](#)
- ▶ [More...](#)

## Purchase FAQs

- ▶ [Where can I get a registered version of the software or how can I register the software using the website provided?](#)
- ▶ [How do I buy?](#)
- ▶ [Is online ordering secure?](#)
- ▶ [I don't have a Credit Card. How can I order your products?](#)
- ▶ [Can I make a payment by check?](#)
- ▶ [How much is the latest version of Magic DVD Rip Studio for registered users of the previous one?](#)
- ▶ [How is the Trial version different from the Purchased version?](#)
- ▶ [What happens after I send in the order?](#)
- ▶ [Does your product support Windows Media 9?](#)
- ▶ [I purchased a copy of Magic DVD Rip Studio, and now I want to use it on another computer. What can I do?](#)
- ▶ [Can I purchase the software in a local store near where I live?](#)
- ▶ [More...](#)

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## Other FAQs

- ▶ [The new way to buy software: What is ESD?](#)
- ▶ [What are the main advantages of ESD?](#)
- ▶ [Payment Options](#)
- ▶ [Questions not covered by this document](#)

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## How to

- ▶ [How to convert DVD files from one format to another with Magic DVD Rip Studio](#)
- ▶ [How to select input file or files](#)
- ▶ [How to change output file name and location?](#)
- ▶ [How to remove file/s](#)
- ▶ [How to create a DVD with no audio](#)

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## DVD VCD SVCD Specification

DVD specification	SVCD specification	VCD specification
NTSC: Width: 352 Height: 240 Frames per second: 29.97 Color depth: 24 or 32 bits	NTSC: Width: 720 Height: 480 Frames per second: 29.97 Color depth: 24 or 32 bits	NTSC: Width: 480 Height: 480 Frames per second: 29.97 Color depth: 24 or 32 bits
PAL: Width: 352 Height: 288 Frames per second: 25 Color depth: 24 or 32 bits	PAL: Width: 720 Height: 576 Frames per second: 25 Color depth: 24 or 32 bits	PAL: Width: 480 Height: 576 Frames per second: 25 Color depth: 24 or 32 bits

The DVD sizes can be a bit confusing. There are basically 4 different DVD sizes:

DVD-5, holds around 4 700 000 000 bytes (4.37 computer GB where 1 kbyte is 1024 bytes\*). DVD +R/DVD+RW and DVD-R/DVD-RW support this format. Also called Single Sided Single Layered. This is the most common DVD Media, often called 4.7 GB Media.

DVD-10, holds around 9 400 000 000 bytes (8.75 computer GB). DVD+R/DVD+RW and DVD-R/DVD-RW support this format. Also called Double Sided Single Layered.

DVD-9, holds around 8 540 000 000 bytes (7.95 computer GB). DVD+R supports this format. Also called Single Sided Dual Layered. This media is called DVD+R9, DVD+R DL or 8.5 GB Media.

DVD-18, holds around 17 080 000 000 bytes (15.9 computer GB). DVD+R supports this format. Also called Double Sided Dual Layered.

DVD+R/DVD+RW/DVD+R DL and DVD-R/DVD-RW exact sizes:

DVD-R/DVD-RW = 4 706 074 624 bytes ( 4488 MB )  
 DVD+R/DVD+RW = 4 700 372 992 bytes ( 4482 MB )  
 DVD+R DL = 8 547 993 600 bytes ( 8152 MB )

Folder	Files	Explanation
AUDIO_TS	(undefined)	DVD Audio
VIDEO_TS	VIDEO_TS.BUP	
	VIDEO_TS.IFO	<b>The first video play item, IFO</b> , usually a copyright notice or a menu
	VIDEO_TS.VOB	<b>The first video play item, VOB</b>
	VTS_01_0.BUP	

VTS_01_0.IFO	<b>Title 01, IFO</b> , usually the main movie
VTS_01_0.VOB	<b>Title 01, VOB 0, the menu for this title</b>
VTS_01_1.VOB	<b>Title 01, VOB 1, the video for this title</b>
VTS_01_2.VOB	<b>Title 01, VOB 2</b> , if larger than 1 GB it will be split into several vobs
VTS_01_3.VOB	<b>Title 01, VOB 3</b>
VTS_01_4.VOB	<b>Title 01, VOB 4</b> , up to 10(0-9) VOB files if necessary
VTS_02_0.BUP	
VTS_02_0.IFO	<b>Title 02, IFO</b> , usually movie extras
VTS_02_0.VOB	<b>Title 02, VOB 0, the menu for this title</b>
VTS_02_1.VOB	<b>Title 02, VOB 1, the video for this title</b>
VTS_xx_x.BUP	
VTS_xx_x.IFO	And so on
VTS_xx_x.VOB	
VTS_xx_x.VOB	
VTS_99_9.VOB	Up to 99(1-99) titles with max 10(0-9) VOB files each

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## About Magic Software

**Take the lead in multimedia;  
Create a Colorful Life!**

As a shareware developer of multi-media authoring solutions, Magic Software takes the lead. We have professional experience in the execution of our philosophy - Think Like a Customer. This gives us the ideas to create reliable and easy-to-use software products.

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## Appendix A Keyboard shortcuts

Key	Function
Ctrl + D	Open DVD file
Ctrl + I	Open .IFO file
Ctrl + O	Open .VOB file
Ctrl + C	Check input file
Shift + C	Check all input files
Ctrl + U	Uncheck input file
Shift + U	Uncheck all input files
Del	Remove file
Shift + Del	Remove all files
F2	Setting (main panel)
F1	Help

## Appendix B DVD, VCD, and SVCD

### DVD, VCD, and SVCD

There are several factors to consider in choosing an output format for your project. These include your desired output quality, target playback device, and viewing screen size, among others. Here are the advantages and disadvantages that picking each output format entails:



Digital Versatile Disc (DVD) is popular in video production because of its quality. Not only does it guarantee superb audio and video quality, it can also hold several times more data than VCDs and SVCDs. DVDs make use of the MPEG-2 format, which has a much bigger file size than MPEG-1, and can likewise be produced as single or dual-sided, and single or dual-layered. DVDs can be played on stand-alone DVD players or on the DVD-ROM drive of your PC.



Video Compact Disc (VCD) is a special version of a CD-ROM that uses the MPEG-1 format. The quality of the exported movie is almost the same, but usually better than VHS tape-based movies. A VCD can be played back on a CD-ROM drive, VCD player, and even on a DVD player.



Super Video CD (SVCD) is commonly described as an enhanced version of VCD. It is based on MPEG-2 technology with Variable Bit Rate (VBR) support. The typical running time of an SVCD is about 30-45 minutes. Although you could extend this to 70 minutes, you will have to compromise sound and image quality. SVCDs can be played back on stand-alone VCD/SVCD players, most DVD players, and all CD-ROM/

DVD-ROM with DVD/SVCD player software.

## Appendix C Glossary

### A

#### **AVI**

AVI is short for "Audio Video Interleave", the original Microsoft file format for Microsoft's Video for Windows standard. It is an audio video standard designed by Microsoft and is apparently proprietary and Microsoft Windows specific. It is a format developed for storing video and audio information. Files in this format have an .AVI extension. However, Video for Windows does not require any special hardware, making it the lowest common denominator for multimedia applications.

Video Compact Disc (VCD) is a special version of a CD-ROM that uses the MPEG-1 format. The quality of the exported movie is almost the same, but usually better than VHS tape-based movies. A VCD can be played back on a CD-ROM drive, VCD player, and even on a DVD player.

### B

#### **bandwidth**

A network's capacity for transferring an amount of data in a given time.

#### **bit rate**

Bit rate is very often used when speaking of video or audio quality and file size -- it defines how much physical space one second of audio or video takes in bits (note: not in bytes). The higher the bit rate, the more times per second the original sound is sampled, thus yielding a more faithful reproduction and better sound. When choosing an MP3, weigh the advantage of a higher bit rate against the size of the file. Generally speaking, a bit rate of 128 kbps or higher will provide satisfactory sound quality. Constant Bit Rate (CBR) encoding maintains the same bit rate throughout an encoded file. Variable Bit Rate (VBR) is an MP3 encoding method that's used when file size is not an issue. Unfortunately, Video Convert Master decodes VBR but doesn't encode it. Selecting the proper bit rate for your projects depends on the playback target: if you're making a VCD for playback on a DVD player, the video must be exactly 1150 Kbps and the audio 224 Kbps.

### C

#### **codec**

An abbreviation for compressor/decompressor. Software or hardware used to compress and decompress digital media.

#### **compression**

A process for removing redundant data from a digital media file or stream to reduce its size, or the bandwidth used.

### D

#### **DivX**

DivX is the name given to a video codec (a piece of software used for encoding and decoding video) and is based on the MPEG-4 compression format. MPEG-4 is a new standard of video compression that is both high quality and low bit rate. DivXs are usually only a fraction (around 15%) of the size of a standard DVD, even at 640x480 resolutions, making them the best home video format thus far. They only take half the time to encode, and yet at the same time are smaller in size than MPEG-1 - due to the incredible compression technology. Some have even called MPEG-4 the "MP3 of the video world". Quality ranges from net-streaming quality to DVD and better.

### F

#### **frame**

One of many sequential images that make up video.

**frame rate**

The number of video frames displayed per second. Higher frame rates generally produce smoother movement in the picture.

**I****.IFO file**

The .IFO (and backup .BUP) files contain menus and other information about the video and audio.

**M****MPEG**

Gives excellent compression with little loss in quality of the video. MPEG support three types of data - video, audio and streaming. There are a number of standards: among them there are two flavors of MPEG available today.

**MPEG-1**

MPEG-1 was designed to provide VHS video quality and CD audio quality at a combined data rate of 150 kilobytes per second. MPEG-1 is displayed at 30 frames per second in a frame that is 352x240 (horizontal x vertical) pixels in size. This allows relatively high quality video images to be stored in relatively small file sizes for playback across computer networks or CD-ROM delivery.

**MPEG-2**

MPEG-2 is the other side of the compression coin. It is a broadcast standard specifying a playback size of 720 x 480 pixels at 60 fields per second. Data rates can range from 2 to 10 megabits per second. This means large file sizes and data rates that require specialized hardware for playback. MPEG-2 is one of the core compression technologies for DVD. See the MPEG site for more information.









































**S****SVCD**



















SVCD (Super Video CD) is a great method of saving DVD movies to CD without losing much quality. SVCD discs can be played in your DVD player.

**Y****YUV**

YUV is the color space used in the PAL system of television broadcasting, which is the standard in most of Europe and some other locations. Y stands for the luminance component (the brightness) and U and V are the chrominance (color) components. The YCbCr or YPbPr color space, used in computer component video, is derived from it (Cb/Pb and Cr/Pr are simply scaled versions of U and V), and is sometimes inaccurately called "YUV".



ba	Bosnia and Herzegovina  (UN) 387	fi	Finland (UN) 358	ke	Kenya (UN) 254	ps	Palestinian Territories (West Bank, Gaza Strip) (disputed by IL) 970	ua	Ukraine  (UN) 380
bb	Barbados  (UN) 1246	fj	Fiji (UN) 679	kg	Kyrgyzstan  (UN) 996	pt	Portugal (UN) 351	ug	Uganda (UN) 256
bd	Bangladesh (formerly East Pakistan)  (UN) 880	fk	Falkland Islands (formerly Malvinas) 500	kh	Kampuchea (now Cambodia) (UN) 855	pw	Palau (UN) 680	uk	United Kingdom (Great Britain and Northern Ireland) (UN) 44
be	Belgium (UN) 32	fm	Federated States of Micronesia (Caroline Islands) (UN) 691	ki	Kiribati (UN) 686	py	Paraguay (UN) 595	us	US Minor Outlying Islands (Midway, Wake, etc.) 808
bf	Burkina Faso (formerly Upper Volta) (UN) 226	fo	Faroe Islands  298	kn	Comoros (UN) 1869	qa	Qatar (UN) 974	uy	United States (UN) 1
bg	Bulgaria (UN) 359	fr	France (UN) 33	km	Saint Kitts and Nevis (UN) 1869	re	Réunion Island  262	uz	Uzbekistan  (UN) 998
bh	Bahrain (once Dilmun) (UN) 973	fx	France, Metropolitan (i.e. European) 33	kp	Korea, North (Democratic People's Republic of) (UN) 850	ro	Romania (UN) 40	uz	US Virgin Islands 1340
bi	Burundi (formerly part of Ruanda-Urundi, formerly German East Africa) (UN) 257	gf	French Guiana  594	kr	Korea, South (Republic of) (UN) 82	ru	Russia  (UN) 7	vi	USSR (Soviet Union, now 15 separate republics) 7
bj	Benin (UN) 229	pf	French Polynesia  (formerly Oceania) 689	kw	Kuwait (UN) 965	rw	Rwanda (formerly part of Ruanda-Urundi, German East Africa) (UN) 250	vn	Vietnam (formerly North and South Vietnam) (UN) 84
bm	Bermuda  1441	tf	French Southern Territories  594	ky	Cayman Islands  1345	sa	Saudi Arabia (UN) 966	vy	Vatican City State (Holy See) 379
bn	Brunei Darussalam (UN) 673	ga	Gabon (UN) 241	kz	Kazakhstan  (UN) 7	sb	Solomon Islands  (UN) 677	uz	Uzbekistan  (UN) 998
bo	Bolivia (UN) 591	gb	Great Britain (ISO3166 only) 44	la	Laos (UN) 856	sc	Seychelles (UN) 248	uz	US Virgin Islands 1340
br	Brazil (UN) 55	gd	Grenada  (UN) 1473	lb	Lebanon (UN) 961	sd	Sudan (UN) 249	uz	USSR (Soviet Union, now 15 separate republics) 7
bs	Bahamas  (UN) 1242	ge	Georgia  (UN) 995	lc	Lucia, Saint  (UN) 1758	se	Sweden (UN) 46	uz	USSR (Soviet Union, now 15 separate republics) 7
bt	Bhutan (UN) 975	gf	Guiana, French  594	li	Liechtenstein (UN) 41	sg	Singapore (UN) 65	uz	USSR (Soviet Union, now 15 separate republics) 7
bv	Bouvet Island  1441	gg	Guernsey (Channel Island)  44	lk	Sri Lanka (formerly Ceylon) (UN) 94	sh	Saint Helena  290	uz	USSR (Soviet Union, now 15 separate republics) 7
bw	Botswana (formerly Bechuanaland)  (UN) 267	gh	Ghana (UN) 233	lr	Liberia (UN) 231	si	Slovenia  (UN) 386	uz	USSR (Soviet Union, now 15 separate republics) 7
by	Belarus  (once White Russia) (UN) 375	gi	Gibraltar  350	ls	Lesotho (formerly Basutoland) (UN) 266	sj	Svalbard and Jan Mayen Islands  79	uz	USSR (Soviet Union, now 15 separate republics) 7
bz	Belize (formerly British Honduras)  (UN) 501	gl	Greenland  299	lt	Lithuania  (UN) 370	sk	Slovakia (formerly part of CS) (UN) 421	uz	USSR (Soviet Union, now 15 separate republics) 7
io	British Indian Ocean Territory (Chagos Islands)  246	gm	Gambia, The (UN) 220	lv	Latvia  (UN) 371	sl	Sierra Leone (UN) 232	uz	USSR (Soviet Union, now 15 separate republics) 7
vg	British Virgin Islands  1284	gn	Guinea (formerly French Guinea) (UN) 224	ly	Libya (UN) 218	sm	San Marino (UN) 378	uz	USSR (Soviet Union, now 15 separate republics) 7
		gp	Guadeloupe  590			sn	Senegal (UN) 221	uz	USSR (Soviet Union, now 15 separate republics) 7
		gq	Guinea, Equatorial (formerly Spanish Guinea) (UN) 240			so	Somalia (UN) 252	uz	USSR (Soviet Union, now 15 separate republics) 7
		gr	Greece (UN) 30			sr	Suriname (UN) 597	uz	USSR (Soviet Union, now 15 separate republics) 7
						st	São Tomé and Príncipe (UN) 239	uz	USSR (Soviet Union, now 15 separate republics) 7
						sv	Soviet Union (USSR, now 15 separate republics) 7	uz	USSR (Soviet Union, now 15 separate republics) 7
						sy	Syria (UN) 963	uz	USSR (Soviet Union, now 15 separate republics) 7
						sz	Swaziland (UN) 268	uz	USSR (Soviet Union, now 15 separate republics) 7
						kn	Saint Kitts and Nevis  (UN) 1869	uz	USSR (Soviet Union, now 15 separate republics) 7
						lc	Saint Lucia  (UN) 1758	uz	USSR (Soviet Union, now 15 separate republics) 7
						pm	Saint Pierre and Miquelon 508	uz	USSR (Soviet Union, now 15 separate republics) 7
						vc	Saint Vincent and the Grenadines  (UN) 1784	uz	USSR (Soviet Union, now 15 separate republics) 7

ca	Canada  (UN) 1	gs	Georgia, South, and The South Sandwich Islands 	ma	Morocco (UN) 212	ws	Samoa (formerly Western Samoa) (UN) 685	vu	Vanuatu (formerly New Hebrides) (UN) 678
cc	Cocos Islands (Keeling)  61,672	gt	Guatemala (UN) 502	mc	Monaco (UN) 377	za	South Africa (Zuid Africa) (UN) 27		
cd	Congo, Democratic Republic of (formerly ZR) (formerly Belgian Congo) (UN) 243	gu	Guam  1671	md	Moldova  (once part of RO) (UN) 373	gs	South Georgia and The South Sandwich Islands 		Wallis and Futuna Islands  681
cf	Central African Republic (formerly Ubangi-Shari) (UN) 236	gw	Guinea-Bissau (formerly Portuguese Guinea) (UN) 245	mg	Madagascar (UN) 261	es	Spain (España) (UN) 34	wf	Western Samoa (now Samoa) (UN) 685
cg	Congo, Republic of (once French Congo) (UN) 242	gy	Guyana (formerly British Guiana) (UN) 592	mh	Marshall Islands  (UN) 692	lk	Sri Lanka (formerly Ceylon) (UN) 94	ws	Western Sahara (disputed by MA) (formerly Spanish Sahara) 212
ch	Switzerland (Schweiz in German) 41	dd	Germany (East) (now Germany) 49	mk	Macedonia  (UN) 389	ch	Switzerland (Schweiz in German) 41	eh	Yemen (UN) 967
ci	Côte d'Ivoire (Ivory Coast) (UN) 225	de	Germany (Deutschland) (formerly East and West Germany) (UN) 49	ml	Mali (formerly French Sudan) (UN) 223			ye	Mayotte
ck	Cook Islands  682	hm	Hong Kong (administration of CN) 852	mm	Myanmar (formerly Burma) (UN) 95	yt	Island  269	yt	Yugoslavia (Serbia and Montenegro) (formerly included BA, HR, MK, SI) (UN) 381
cl	Chile (UN) 56	hn	McDonald Islands 	mn	Mongolia (UN) 976	yu	Zuid Africa (South Africa) (UN) 27		
cm	Cameroon (UN) 237	hr	Honduras (UN) 504	mo	Macau 853	zm	Zambia (formerly Northern Rhodesia) (UN) 260		
cn	China (UN) 86	ht	Hrvatska (Croatia)  (UN) 385	mp	Mariana Islands, Northern  1670	zr	Zaire (now CD) 243		
co	Colombia (UN) 57	hu	Hungary (Magyarország) (UN) 36	mq	Martinique  596	zw	Zimbabwe (formerly Southern Rhodesia) (UN) 263		
cr	Costa Rica (UN) 506	va	Holy See (Vatican City State) 379	mr	Mauritania (UN) 222				
cs	Czechoslovakia (now CZ and SK) 42			ms	Montserrat  1664				
cu	Cuba (UN) 53			mt	Malta (UN) 356				
cv	Cape Verde Islands (UN) 238			mu	Mauritius (UN) 230				
cx	Christmas Island  61,672			mv	Maldives (UN) 960				
cy	Cyprus (UN) 357			mw	Malawi (formerly Nyasaland) (UN) 265				
cz	Czech Republic (formerly part of CS) (UN) 420			mx	Mexico (UN) 52				
kh	Cambodia (formerly Kampuchea) (UN) 855			my	Malaysia (UN) 60				
ky	Cayman Islands  1345			mz	Mozambique (UN) 258				
td	Chad (Tchad) (UN) 235			yt	Mayotte				
km	Comoros Islands (UN) 269			fm	Micronesia (Caroline Islands) (UN) 691				

