



## Solveig Multimedia Video Splitter

This documentation is designed to help you in using Solveig Multimedia Video Splitter. It contains information that describes basic and advanced steps for performing splitting tasks, description of interface items and shortcut keys.

This documentation is divided into the following sections:

- [Getting started](#): This section contains introductory information about Solveig Multimedia Video Splitter, supported file formats, system requirements, basic terms and shortcut keys
- [Solveig Multimedia Video Splitter interface](#): Provides an information about controls in the Solveig Multimedia Video Splitter user interface
- [Using Solveig Multimedia Video Splitter](#): Provides an information about procedures to accomplish common tasks in Solveig Multimedia Video Splitter
- [How-To](#): Provides an information about basic steps of video splitting process
- [Technical information](#): Provides a technical description of components Video Splitter is based on
- [Version History](#)

SolveigMM Video Splitter User Guide

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For information, contact Solveig Multimedia

Tel: +7 382-2-492-609; Fax: +7 382-2-492-642

More information can be found at: [www.solveigmm.com](http://www.solveigmm.com)

For Technical Support, please contact the Solveig Multimedia Technical Support Team: [support@solveigmm.com](mailto:support@solveigmm.com)

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## Getting started

SolveigMM Video Splitter is a fast and powerful AVI, ASF, WMV video splitting tool. You can split your video file into parts in few mouse clicks without any quality loss. Cutting off several file portions of a movie at one time is also allowed. You can get rid of all commercials in your movie in a couple of simple steps.

Since version 1.2 batch files are supported! For now you can add all the trimming tasks to batch queue and process all of them in one time.

In this section:

- [Basic terms](#): Explanation of concepts and terms that are referred in this document
- [Supported file formats](#): List of file formats that SolveigMM Video Splitter can handle
- [System requirements](#): Minimum and recommended system requirements for SolveigMM Video Splitter
- [Keyboard shortcuts](#): List of keyboard shortcuts

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## Basic terms

This section explains key terms referred throughout this document. Understanding this terms will help you to start using Solveig Multimedia Movie Splitter in most comfortable way.

- [Splitting process](#)
- [Source and destination files](#)
- [Markers](#)
- [Fragments](#)

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## Splitting process

Splitting is a process of dividing your video files into parts. For example, you may cut off a piece of video with unlikely scenes (e.g. commercials, corrupted video). Splitting process leaves source files intact, saving result in destination file.

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## Source and destination files

Source and destination files are the video files of [supported format](#). Source file contains video that you may split into parts, destination file contains final movie clip. During splitting process source file remains in its original location and will not be changed or deleted.

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## Markers

Marker is a constituent part of a fragment to consist of two markers: start and end ones. It is set to a current cursor position.



Selected marker is depicted by a yellow color:



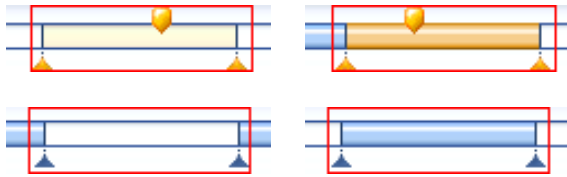
Such operations as deleting and positioning are applied to selected markers only.

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## Fragments

Fragment is a part of a movie (or audio) file limited by two markers to be removed or kept in a final movie. e.g. commercial block you need to be cut off  
Below are depicted examples of fragments:



For more detailed color definition see [Using splitting controls](#) section.

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## Supported file formats

SolveigMM Video Splitter supports media file 300037999formats as follows:

### - AVI file format

- any video content ( DivX, DV, MJPEG, XVID, MPEG-4, etc.)
- any audio content (MPEG-1/2 Layer 1/2/3, Dolby AC3, PCM, OGG, WMA, etc.)
- AVI DV type1 and type2
- any file size ( more than 2 GB )
- OpenDML AVI extension

### - WMV file format

- any Windows Media video content (WM Video 7/9, MPEG-4 v 1/3, etc.)
- any Windows Media audio content (WM audio 2/9, etc.)
- non-indexed or damaged WMV files

### - ASF file format

- any video content ( DivX, MJPEG, XVID, MPEG-4, WM Video 7/9, etc.)
- any audio content (MPEG-1/2 Layer 1/2/3, Dolby AC3, PCM, OGG, WMA, etc.)
- non-indexed or damaged ASF files

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## System requirements

### Software Requirements

- Windows® 98/Me/2000/XP
- DirectX 8.0 Runtime or higher
- Appropriate video and audio decoders for preview feature ( DirectShow, VFW or DMO )
- WMV/ASF support requires Windows Media Format 9 Series Runtime (to be shipped with Windows Media Player 9 and higher) MS: <http://www.microsoft.com/windows/windowsmedia/9series/player.aspx>

## Hardware Requirements

- CPU (Intel® Pentium II, Celeron, AMD® Athlon, Opteron etc.)
  - 128 MB RAM
  - Any VGA card
  - About 100 MB of free disk space
- 

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### Keyboard shortcuts

Almost every procedure in SolveigMM Video Splitter can be done using shortcut keys. Using this shortcut keys you can do some tasks more quickly. The table below provides a list of operations that you can perform using keyboard shortcuts.

#### Hot Keys of Video Splitter (main window):

Operation	Shortcut key
Next K frame	Right arrow
Previous K frame	Left arrow
Jump to 1/20th movie length forward	Page Up
Jump to 1/20th movie length backward	Page Down
Jump to movie end	Home
Jump to movie start	End
Play/Pause	Space
Add Marker	M
Remove marker(s)	Delete
Clear all markers	Ctrl + C
Cut Off / Keep On Selected Fragment	S
Invert Time Line Fragments	I
Calculate destination file size (is available for AVI)	Ctrl + F
Start splitting process	Ctrl + T
Show batch manager	L
Add task to batch queue	A
Help topics	F1

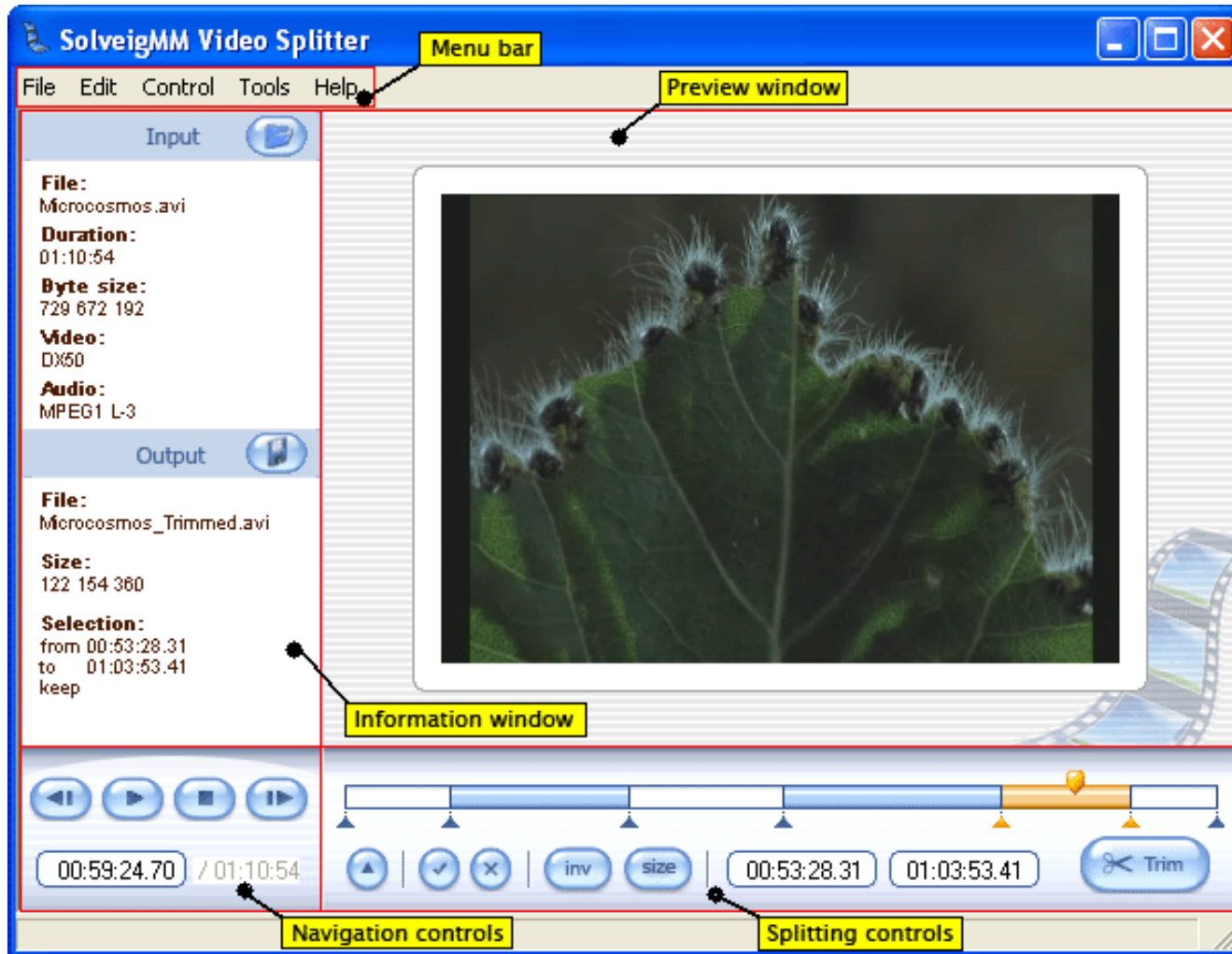
## Hot Keys of Batch Manager:

Operation	Shortcut key
Load task list	Ctrl + O
Save task list	Ctrl + S
Add task to batch queue	A
Update task in batch queue	U
Delete selected task or fragment	Delete
Start batch processing	Ctrl + T
Edit task in main window, or show selected fragment in main window	Enter

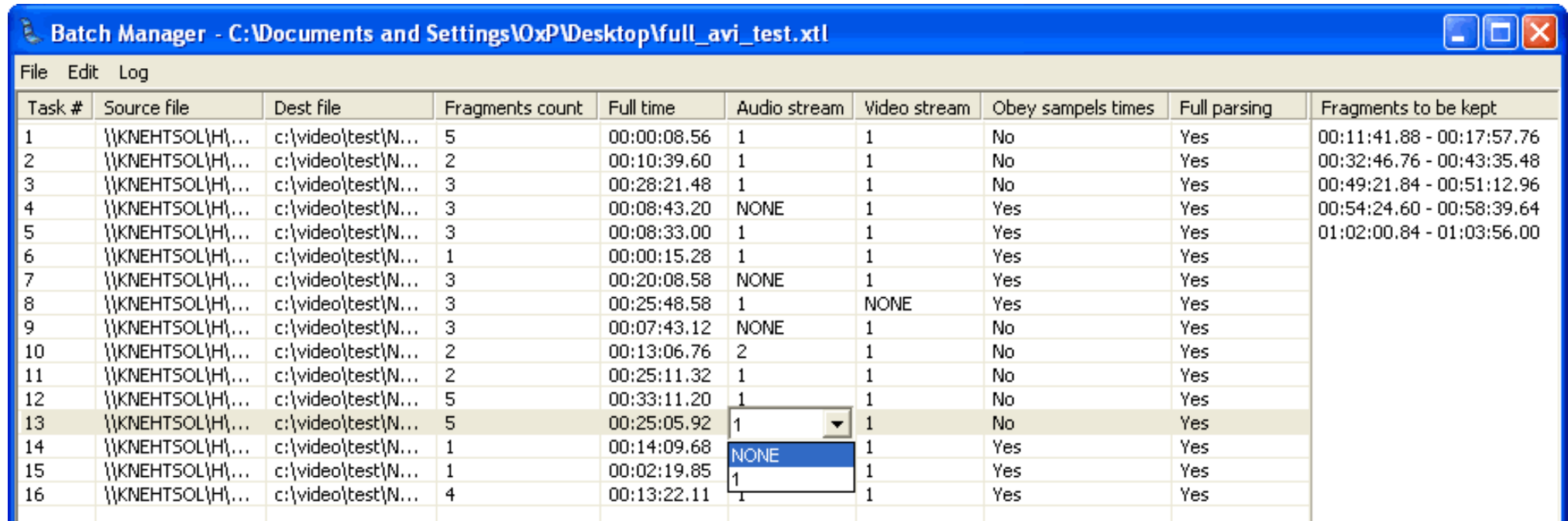
## Solveig Multimedia Video Splitter interface

The Solveig Multimedia Video Splitter user interface consist of four main parts: Menu bar, Navigation controls, Splitter controls and Preview Window.

Main window of the program SolveigMM Video Splitter:



Batch manager window:



Task #	Source file	Dest file	Fragments count	Full time	Audio stream	Video stream	Obey sampels times	Full parsing	Fragments to be kept
1	\\KNEHTSOL\H\...	c:\video\test\N...	5	00:00:08.56	1	1	No	Yes	00:11:41.88 - 00:17:57.76
2	\\KNEHTSOL\H\...	c:\video\test\N...	2	00:10:39.60	1	1	No	Yes	00:32:46.76 - 00:43:35.48
3	\\KNEHTSOL\H\...	c:\video\test\N...	3	00:28:21.48	1	1	No	Yes	00:49:21.84 - 00:51:12.96
4	\\KNEHTSOL\H\...	c:\video\test\N...	3	00:08:43.20	NONE	1	Yes	Yes	00:54:24.60 - 00:58:39.64
5	\\KNEHTSOL\H\...	c:\video\test\N...	3	00:08:33.00	1	1	Yes	Yes	01:02:00.84 - 01:03:56.00
6	\\KNEHTSOL\H\...	c:\video\test\N...	1	00:00:15.28	1	1	Yes	Yes	
7	\\KNEHTSOL\H\...	c:\video\test\N...	3	00:20:08.58	NONE	1	Yes	Yes	
8	\\KNEHTSOL\H\...	c:\video\test\N...	3	00:25:48.58	1	NONE	Yes	Yes	
9	\\KNEHTSOL\H\...	c:\video\test\N...	3	00:07:43.12	NONE	1	No	Yes	
10	\\KNEHTSOL\H\...	c:\video\test\N...	2	00:13:06.76	2	1	No	Yes	
11	\\KNEHTSOL\H\...	c:\video\test\N...	2	00:25:11.32	1	1	No	Yes	
12	\\KNEHTSOL\H\...	c:\video\test\N...	5	00:33:11.20	1	1	No	Yes	
13	\\KNEHTSOL\H\...	c:\video\test\N...	5	00:25:05.92	1	1	No	Yes	
14	\\KNEHTSOL\H\...	c:\video\test\N...	1	00:14:09.68	NONE	1	Yes	Yes	
15	\\KNEHTSOL\H\...	c:\video\test\N...	1	00:02:19.85	1	1	Yes	Yes	
16	\\KNEHTSOL\H\...	c:\video\test\N...	4	00:13:22.11	1	1	Yes	Yes	

In this section:

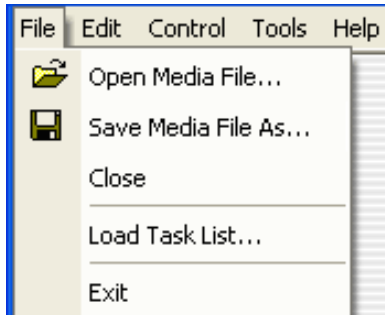
- [Menu bar](#)
- [Navigation controls](#)
- [Information panel](#)
- [Splitting controls](#)
- [Preview window](#)
- [Progress window](#)
- [Splitter in system tray](#)
- [Filters info window](#)
- [Batch manager](#)

## Menu bar

You can use commands in the menu bar to perform tasks in Solveig Multimedia Video Splitter. These commands are described throughout this document.

File Edit Control Tools Help

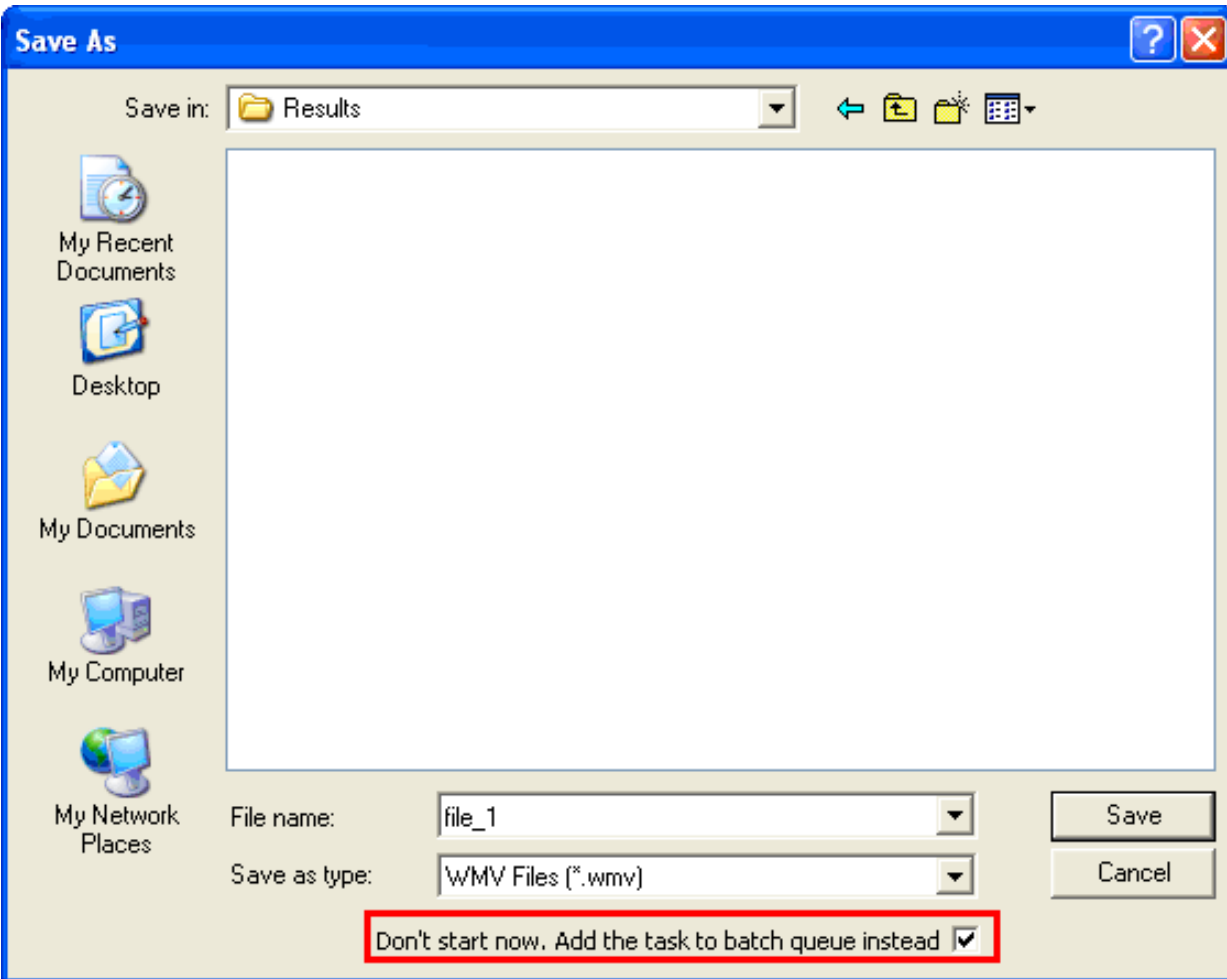
Menu "File"



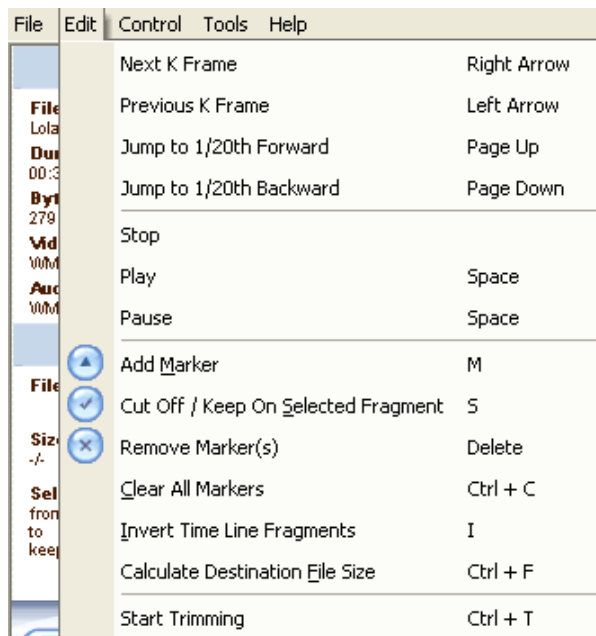
Menu item	Description
Open media file...	Allows an user to choose a supported media file to be opened and edited (*)
Save media file as...	Allows an user to set an output file name an immediately save it (starts trimming process) or add to a batch queue (*), (**)
Close	Close input and output file names
Load Task List...	Allows an user to load Task List to Batch Manager
Exit	Close the program

(\*) - These operations are also allowed in [information panel](#).

(\*\*) - To add the task to a batch queue you should set "Don't start now. Add the task to batch queue instead" check box in "Save As" dialog as depicted below:



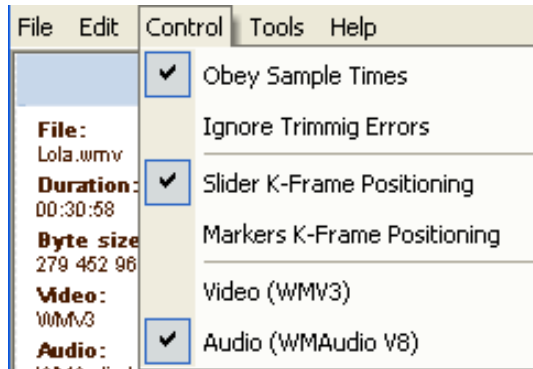
## Menu "Edit"



Menu item	Description	Shortcut key
Next K Frame	Go to the next K Frame	Right arrow
Previous K Frame	Go to the previous K Frame	Left arrow
Jump to 1/20th forward	Jump to 1/20th movie length forward	Page Up
Jump to 1/20th backward	Jump to 1/20th movie length backward	Page Down
Stop	Stop playback	Space
Play	Start playback	Space
Pause	Pause playback	
Add Marker	Add new marker (*)	M
Cut Off / Keep On Selected Fragment	Cut off or keep on selected fragment (*)	S
Remove Marker(s)	Remove selected marker or markers (*)	Delete
Clear all marks	Remove all markers	Ctrl + C
Invert Time Line Fragments	Invert all time line fragments on slider (*)	I
Calculate destination file size	Calculate destination file size (is available for AVI)	Ctrl + F
Start trimming	Start trimming process (*)	Ctrl + T

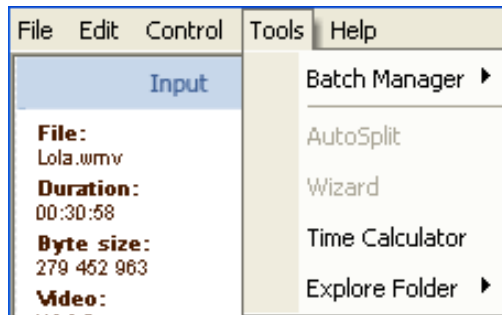
(\*) - These operations can be accomplished by means of menu and context menu. For details see: [Navigation controls](#), [Information panel](#), [Splitting controls](#)

## Menu "Control"



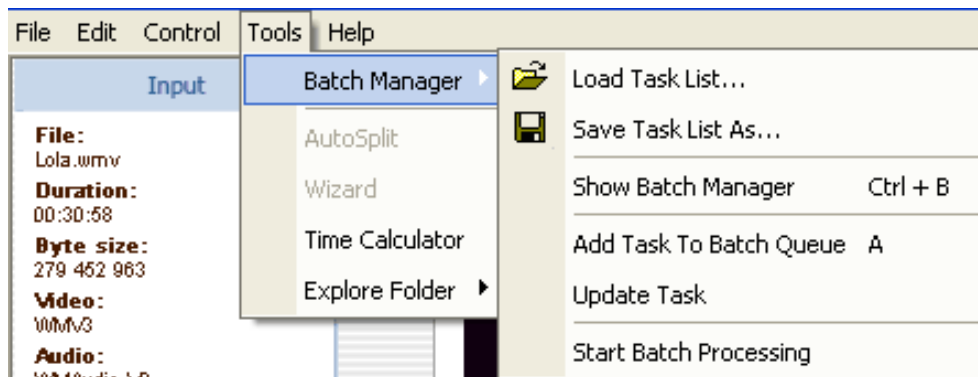
Menu item	Description
Obey samples times	To use alternative synchronization algorithm. By default it is switched off. If resulting file is out of sync, repeated trimming this set option should improve audio/video synchronization.
Video and Audio streams	Allows you to choose audio and/or video streams to be rendered into final movie. For details see <a href="#">Using Solveig Multimedia Video Splitter</a> .
Ignore Trimming Errors	Forces to ignore trimming errors. <b>Note:</b> It is recommended to use this in switch off mode by default.
Slider K-Frame Positioning	If this option is switched on, after positioning the slider cursor jumps to the nearest previous K Frame. This mode implements (What See Is What You Get) feature. If this option is switched off, you can navigate through all movie frames.
Markers K-Frame Positioning	If this option is switched on, after positioning the marker jumps to the nearest previous K Frame. This mode implements (What See Is What You Get) feature. If this option is switched off, you can set marker at any movie frame. <b>Note:</b> If a marker to be begin of a fragment is set to "switch off" state, the fragment in final movies will be started with K Frame anyway. <b>Note:</b> If a marker to be end of a fragment is set to "switch off" state, the fragment in final movies will end with frame at marker position.

## Menu "Tools"



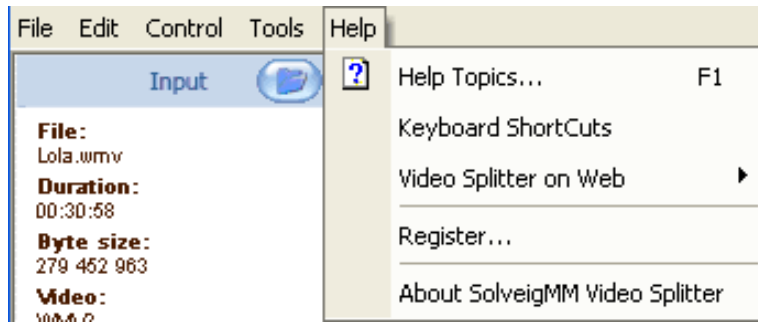
Menu item	Description
Batch Manager	Contains submenu to Batch Manager control
Time Calculator	Show time calculator
Explore Folder	Opens Microsoft Explorer with a folder of Input or Output set media files.

## Menu "Tools -> Batch Manager"



Menu item	Description	Shortcut key
Show Batch Manager	Shows Batch Manager window	Ctrl + B
Load Task List...	Allows an user to choose a supported batch file to be opened and edited	
Save Task List As...	Allows to save Task List containin trimming task descriptions to *.xtl file. For Task List syntax see <a href="#">Batch file format</a>	
Add Task To Batch Queue	Add a current task to a batch queue	A
Update task	Update selected task in a batch queue	
Start Batch Processing	Start Batch processng	

## Menu "Help"







Menu item	Description	Shortcut key
Help topics...	Starts the Help File	F1
Keyboard ShortCuts	Shows the Help File Keyboard Shortcuts section	
Video Splitter on Web	Allows an user to open Solveig Multimedia web pages and forum.	
Register...	Allows an user to register SolveigMM Video Splitter	
About SolveigMM Video Splitter	Shows About dialog	

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## Navigation controls

Navigation controls are designed for navigation through an opened source media file. By means of this controls you can start and stop the playback, pause it or seek for desired position forward and backward. Also current position and total duration are displayed.



Window item	Description	Shortcut key
	Button "Previous K Frame"	Right arrow
	Button "Play/Pause"	Space
	Button "Stop"	
	Button "Next K Frame"	Left arrow
<input type="text" value="00:59:24.70"/>	Edit box of a slider cursor time position. You can edit this value by manually	
<input type="text" value="01:10:54"/>	Total file length	

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## Information panel

Input


**File:**  
Microcosmos.avi

**Duration:**  
01:10:54

**Byte size:**  
729 672 192

**Video:**  
DX50

**Audio:**  
MPEG1 L-3

Output


**File:**  
noname.avi

**Size:**  
-/-

**Selection:**  
from 00:00:00.00  
to 00:13:14.00  
cut out

"Input" division of Information panel shows you an input media file information such as:

Field	Description
File	Source file name of the opened file
Duration	Duration of the media-file, in HH:MM:SS
ByteSize	Size of the source file
Video	Video coding type
Audio	Audio coding type

"Output" division of Information panel shows you an information as follows:

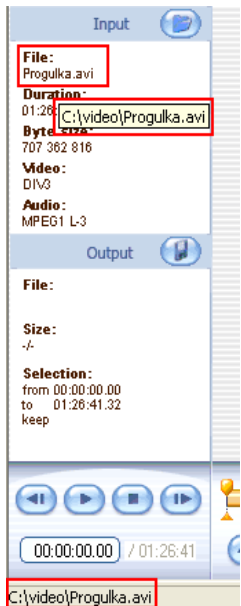
Field	Description
File	Output file name
Size	Output File Size (is available for AVI )
Selection	Selected fragment Information: Start Position Stop Position Type of fragment (Cut Out/Keep On)

**Note:**



All Information Panel values are depicted as condensed versions. To see full version value (e.g. full file name with a path) just point mouse cursor to a value and full version will appear in both in Tooltip and Status bar as shown below:

**Note:**

All the values can be copied to a clipboard through a context menu.



Also an information panel contains "quick buttons":

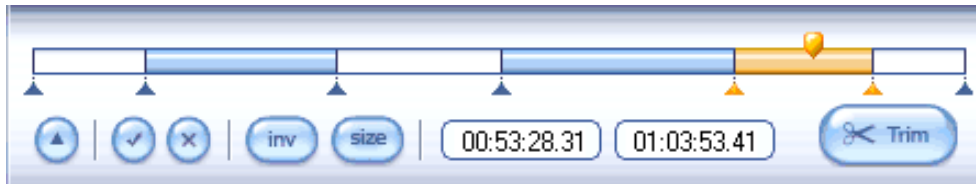
Button	Description
	Button "Open Media File..."
	Button "Save Media File As..."

These operations are also allowed in [Menu "File"](#)

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## Splitting controls

Splitting controls are the heart of Solveig Multimedia Video Splitter. Using this controls you can manage the fragments that will or will not be saved in final movie. You can set fragments to be cut off or keep on, invert or completely delete fragments from your movie. Finally, the main button that starts splitting process is located in this panel.



Window Item	Description	Shortcut key
	Button "Add Marker": Adds a new marker to current slider cursor position.	M
	Button "Cut Off / Keep On Selected Fragment": Sets a fragment type	S
	Button "Remove Marker(s)": Removes a current marker or fragment	Delete
	Button "Invert": Inverts time line fragments	I
	Button "Size": Calculate result file size (is available for AVI)	Ctrl + F
	Button "Trim": Starts trimming or Batch Processing (if batch queue has any task)	Ctrl + T
<input type="text" value="00:58:18.64"/>	Edit box of a left marker cursor time position. You can edit this value by manually	
<input type="text" value="01:10:54.88"/>	Edit box of a right marker cursor time position. You can edit this value by manually	

Examples of fragments:

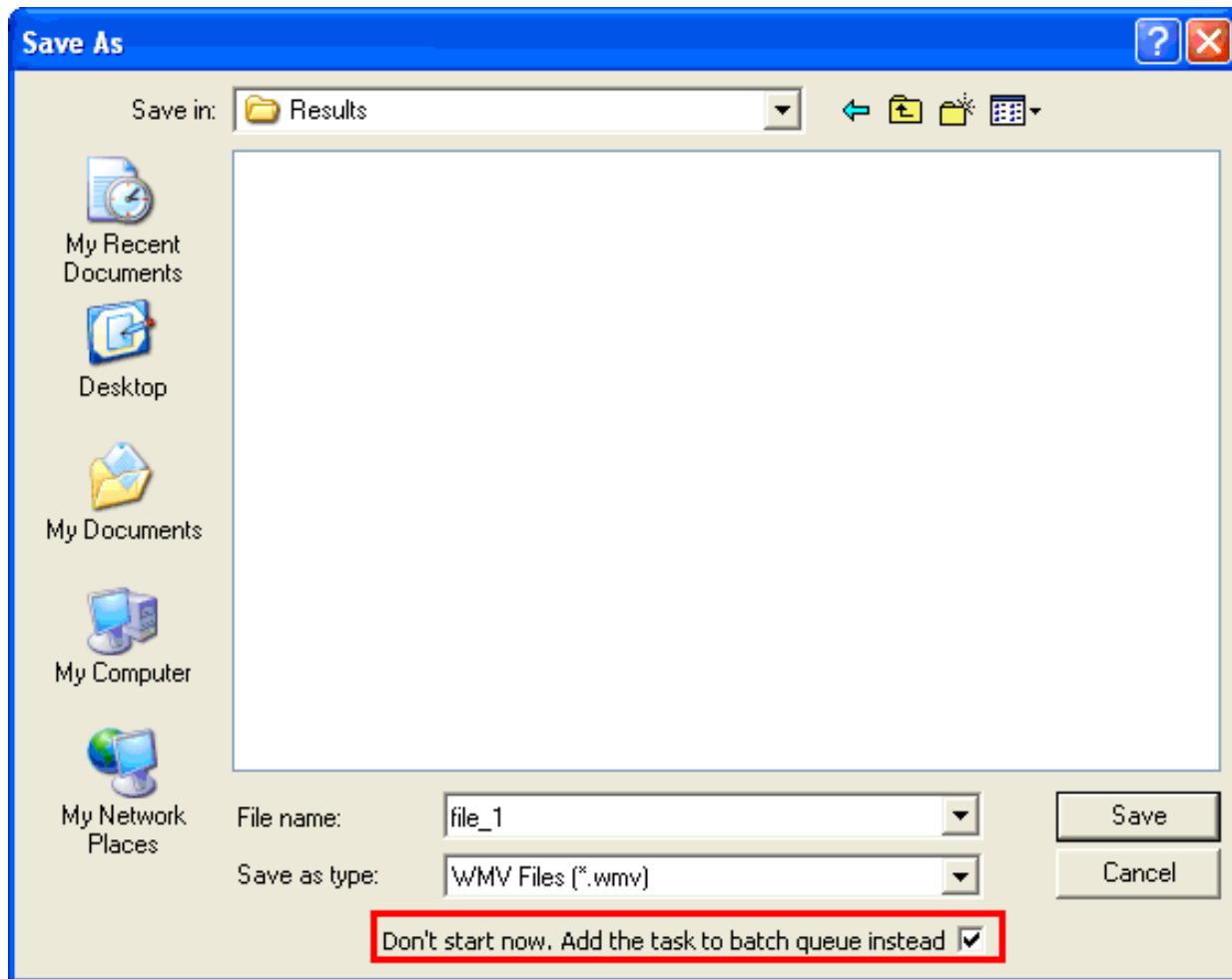
Fragment's color	Description
	This fragment was set to be deleted. It will not be presented in final movie
	This fragment was set to be kept. It will be presented in final movie
	This fragment was set to be deleted. It will not be presented in final movie. Yellow highlight means you can edit it (delete, set it to be kept, etc. )
	This fragment was set to be kept. It will be presented in final movie. Yellow highlight means you can edit it (delete, set it to be cut off, etc. )

## Slider's context menu



Menu item	Description	Shortcut key
Save Selected Fragment As...	Allows an user to set an output file name an immediately save a selected fragment (starts trimming process) or add selected fragment to a batch queue (*)	
Set New Marker	Add new marker to the current slider cursor position	M
Cut Off / Keep On Selected Fragment	Sets type of selected fragment (Cut off or Keep on)	S
Remove Marker(s)	Remove current marker or fragment	Delete
Invert Time Line Fragments	Invert time line fragments	I
Clear All Markers	Remove all markers	Ctrl + C

(\*) - To add the task to a batch queue you should set "Don't start now. Add the task to batch queue instead" check box in "Save As" dialog as depicted below:



## Preview window

Preview window is designed for easy navigating in media file and helps you to put splitting markers as precise as possible.



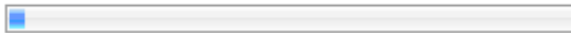
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## Progress window

Progress window indicates a current progress in percents. You can cancel splitting by pressing **Cancel** button or hide the Splitter to System Tray by pressing **Hide** button.

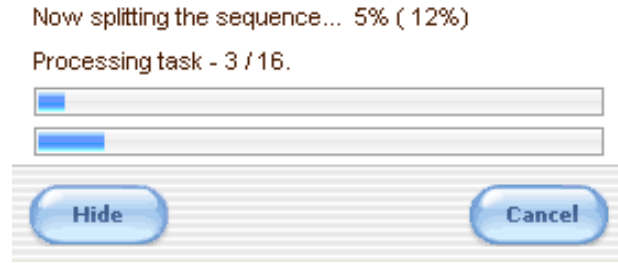
Now splitting the sequence... 3%



Hide

Cancel

Below is depicted progress window of Batch Processing:



Upper progress bar shows progress of the task being performed  
Bottom progress bar shows progress of all the tasks batch queue has

**Hide** button hides the Splitter to System Tray.  
Upon trimming finish the Splitter window appears.

See also: [Splitter in system tray](#)

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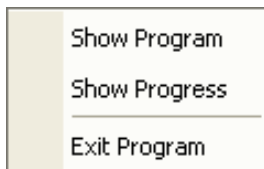
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## Splitter in system tray

Upon pressing **Hide** button, the Video Splitter is hidden to System Tray.



The following context menu is available when Video Splitter is in system tray:



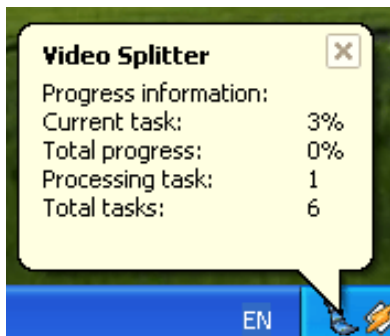
Menu item	Description
Show Program	Restore Video Splitter from system tray
Show Progress	Show current progress
Exit Program	Cancel trim process and exit

Upon clicking Video Splitter system tray icon the progress information will be shown:

One trimming task:



Batch processing:



## Filters info window

This window enumerates all the components that have to be presented for Video Splitter proper operating.

1. Press an icon of the program in the left-top corner of a window (You can use shortcut "**Alt + Space**")
2. Press "**Info...**"

Name	Version	State
SolveigMM Key Frame Manager Filter	1.1.7.5	registered
SolveigMM Video Editing Engine	1.3.7.11	registered
SolveigMM AVI Trimmer filter	1.1.7.10	registered
SolveigMM AVI Writer filter	1.0.7.5	registered
SolveigMM ASF Multiplexer	1.0.7.12	registered

Cancel

## Batch manager window.

Task #	Source file	Dest file	Fragments count	Full time	Audio stream	Video stream	Obey sampels times	Full parsing	Fragments to be kept
1	\\KNEHTSOL\H\...	c:\video\test\N...	5	00:00:08.56	1	1	No	Yes	00:11:41.88 - 00:17:57.76
2	\\KNEHTSOL\H\...	c:\video\test\N...	2	00:10:39.60	1	1	No	Yes	00:32:46.76 - 00:43:35.48
3	\\KNEHTSOL\H\...	c:\video\test\N...	3	00:28:21.48	1	1	No	Yes	00:49:21.84 - 00:51:12.96
4	\\KNEHTSOL\H\...	c:\video\test\N...	3	00:08:43.20	NONE	1	Yes	Yes	00:54:24.60 - 00:58:39.64
5	\\KNEHTSOL\H\...	c:\video\test\N...	3	00:08:33.00	1	1	Yes	Yes	01:02:00.84 - 01:03:56.00
6	\\KNEHTSOL\H\...	c:\video\test\N...	1	00:00:15.28	1	1	Yes	Yes	
7	\\KNEHTSOL\H\...	c:\video\test\N...	3	00:20:08.58	NONE	1	Yes	Yes	
8	\\KNEHTSOL\H\...	c:\video\test\N...	3	00:25:48.58	1	NONE	Yes	Yes	
9	\\KNEHTSOL\H\...	c:\video\test\N...	3	00:07:43.12	NONE	1	No	Yes	
10	\\KNEHTSOL\H\...	c:\video\test\N...	2	00:13:06.76	2	1	No	Yes	
11	\\KNEHTSOL\H\...	c:\video\test\N...	2	00:25:11.32	1	1	No	Yes	
12	\\KNEHTSOL\H\...	c:\video\test\N...	5	00:33:11.20	1	1	No	Yes	
13	\\KNEHTSOL\H\...	c:\video\test\N...	5	00:25:05.92	1	1	No	Yes	
14	\\KNEHTSOL\H\...	c:\video\test\N...	1	00:14:09.68	NONE	1	Yes	Yes	
15	\\KNEHTSOL\H\...	c:\video\test\N...	1	00:02:19.85	1	1	Yes	Yes	
16	\\KNEHTSOL\H\...	c:\video\test\N...	4	00:13:22.11	1	1	Yes	Yes	

Batch manager window is intended for editing batch queue.

Menu description:

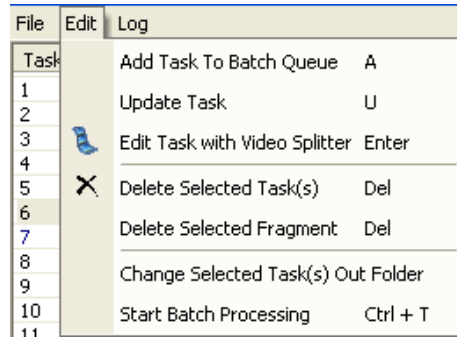
Menu "File"

Menu item	Description	Shortcut key
Load Task List...	Load saved batch queue from file-list (*)	Ctrl + O
Save Task List As...	Save batch queue into file-list	Ctrl + S
Open Task List in Notepad	Open batch queue in notepad (*)	
Hide	Close this window	

Menu item	Description	Shortcut key
Load Task List...	Load saved batch queue from file-list (*)	Ctrl + O
Save Task List As...	Save batch queue into file-list	Ctrl + S
Open Task List in Notepad	Open batch queue in notepad (*)	
Hide	Close this window	

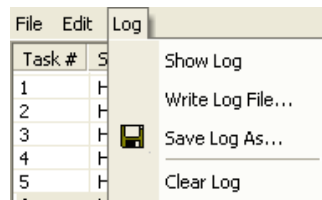
(\*) - For Task List syntax see [Batch file format](#)

### Menu "Edit"



Menu Item	Description	Shortcut key
Add Task To Batch Queue	Add current Video Splitter task to a batch queue	A
Update task	Update task in batch queue in accordance with Video Splitter changes	U
Edit Task with Video Splitter	Edit selected task with Video Splitter main window	Enter
Delete Selected Task(s)	Delete selected task(s)	Delete
Delete Selected Fragment	Delete selected fragment(s)	Delete
Change Selected Task(s) Out Folder	Change output folder for all selected files. Program will not change result file names	
Start Batch Processing	Start batch processing	Ctrl + T

### Menu "Log"



Menu Item	Description
Show log	Show or hide log window
Write log file...	Set file name all the messages will be written during batch manager operating to.
Save log as...	Allows an user to save all the log messages into file
Clear log	Erase all messages

Task queue field:

Task #	Source file	Dest file	Fragments count	Full time	Audio stream	Video stream	Obey sampels times	Full parsing
1	\\KNEHTSOL\H\...	c:\video\test\N...	5	00:00:08.56	1	1	No	Yes
2	\\KNEHTSOL\H\...	c:\video\test\N...	2	00:10:39.60	1	1	No	Yes
3	\\KNEHTSOL\H\...	c:\video\test\N...	3	00:28:21.48	1	1	No	Yes
4	\\KNEHTSOL\H\...	c:\video\test\N...	3	00:08:43.20	NONE	1	Yes	Yes
5	\\KNEHTSOL\H\...	c:\video\test\N...	3	00:08:33.00	1	1	Yes	Yes
6	\\KNEHTSOL\H\...	c:\video\test\N...	1	00:00:15.28	1	1	Yes	Yes
7	\\KNEHTSOL\H\...	c:\video\test\N...	3	00:20:08.58	NONE	1	Yes	Yes
8	\\KNEHTSOL\H\...	c:\video\test\N...	3	00:25:48.58	1	NONE	Yes	Yes
9	\\KNEHTSOL\H\...	c:\video\test\N...	3	00:07:43.12	NONE	1	No	Yes
10	\\KNEHTSOL\H\...	c:\video\test\N...	2	00:13:06.76	2	1	No	Yes
11	\\KNEHTSOL\H\...	c:\video\test\N...	2	00:25:11.32	1	1	No	Yes
12	\\KNEHTSOL\H\...	c:\video\test\N...	5	00:33:11.20	1	1	No	Yes
13	\\KNEHTSOL\H\...	c:\video\test\N...	5	00:25:05.92	1	1	No	Yes
14	\\KNEHTSOL\H\...	c:\video\test\N...	1	00:14:09.68	NONE	1	Yes	Yes
15	\\KNEHTSOL\H\...	c:\video\test\N...	1	00:02:19.85	1	1	Yes	Yes
16	\\KNEHTSOL\H\...	c:\video\test\N...	4	00:13:22.11	1	1	Yes	Yes

The list enumerates all the tasks in batch queue:

Columns description:

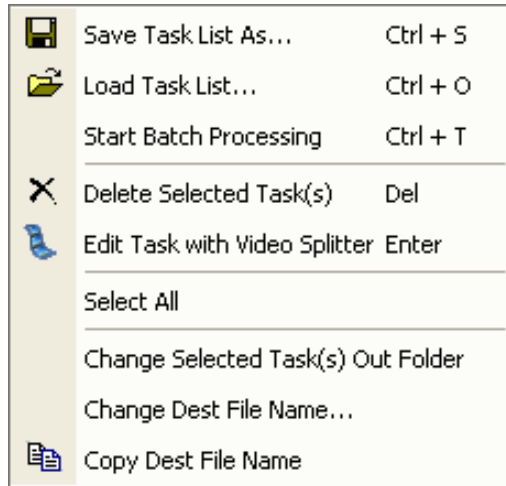
Menu Item	Description
Task #	Task number
Source file	Source file name
Dest file	Destination file name
Fragments count	Count of fragments to be cut off
Full time	Full time of the resulting file
Audio stream	Audio stream number (*)
Video stream	Video stream number (*)
Obey samples times	To use alternative synchronization algorithm. By default it is switched off. If resulting file is out of sync, repeated trimming this set option should improve audio/vido synchronization. (*)

(\*) - These fields can be edited in batch manager window. Just click the cell by left mouse button two times (not double click) or press scrolling mouse button. In a combo box to appear you can choose a necessary item as depicted below.

Changing settings in task list window

1	No
1	No
1	No
NONE	No
1	Yes
1	Yes
1	Yes

Conext menu description:



Menu item	Description	Shortcut key
Save Task List As...	Save batch queue into task list file.	Ctrl + S
Load Task List...	Load batch queue from task list file For Task List syntax see <a href="#">Batch file format</a>	Ctrl + O
Start Batch Processing	Start batch processing	Ctrl + T
Delete Selected Task(s)	Delete selected task(s)	Delete
Edit Task with Video Splitter	Edit selected task in main window	Enter
Select All	Select all tasks	
Change Selected Task(s) Out Folder	Change output folder for all selected files. Program will not change result file names	
Change Source File Name... Change Dest File Name...	Allows an user to change a source or destination file names. This point is available for "Source File" and "Dest file" columns only.	
Copy Source File Name Copy Dest File Name	Copies to a clipboard Source of Destination file name. This point is available for "Source File" and "Dest file" columns only.	



## Fragments list field

### Fragments to be kept

00:23:50.88 - 00:37:33.28  
01:02:38.00 - 01:08:47.64  
01:25:17.52 - 01:30:02.72  
01:43:22.76 - 01:47:03.36  
01:53:22.24 - 01:58:15.60

Here is enumerated all the fragments of selected task to be cut off.

Description of Fragments list context menu

	Delete Selected Fragment	Del
	Show the Fragment in Video Splitter	Enter

Menu item	Description	Shortcut key
Delete Selected Fragment	Delete a selected fragment	Delete
Show the Fragment in Video Splitter	Shows and select the fragment in Video Splitter main window	Enter

## Using Solveig Multimedia Video Splitter

In this section:

- [Opening source file](#)
- [Using splitting controls](#)
- [Saving media file](#)
- [Start trimming process](#)
- [Work with batch queue](#)

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### Opening source file.

File operations in Solveig Multimedia Video Splitter are performed via Menu bar.

To open source file go to Menu bar, select **File** -> **Open Media File...** Select your video file in standard open file dialog. This file will not be changed, deleted or moved during splitting process.

To set destination file, select **File** -> **Output File...** and give a name to the destination file. If file with the same name is already exists, you will be asked for replacing the old file with the new one. You can overwrite the old file or give a new file name to the destination file.

See also: [Menu "File"](#), [Information panel](#)

---

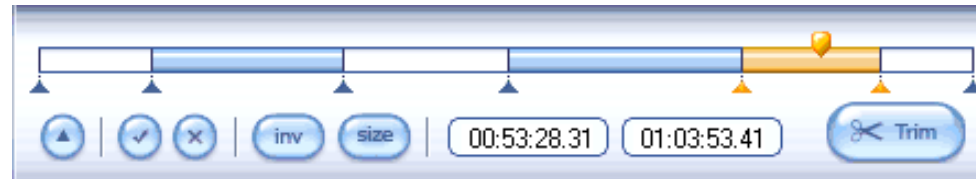
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## Using splitting controls


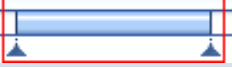


Before trimming start you should define fragments you want to be cut off or keep on in resulting file.







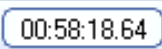
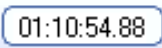
To add a new fragment to slider:

1. Navigate to the beginning of a future fragment
2. Press **Set new marker** button (M), or choose **Edit** -> **Set New Marker** menu item from Menu bar
3. Navigate to the ending of the future fragment
4. Repeat step 2
5. Set fragment type by **Edit** -> **Cut OFF / Keep On Selected Fragment (S)**
6. If you need to change start or stop fragment positions just drag markers to new positions



Examples of fragments:

Fragment's color	Description
	This fragment was set to be deleted. It will not be presented in final movie
	This fragment was set to be kept. It will be presented in final movie
	This fragment was set to be deleted. It will not be presented in final movie. Yellow highlight means you can edit it (delete, set it to be kept, etc. )
	This fragment was set to be kept. It will be presented in final movie. Yellow highlight means you can edit it (delete, set it to be cut off, etc. )

Window element	Description	Shortcut key
	Button "Add Marker": Adds a new marker to current slider cursor position.	M
	Button "Cut Off / Keep On Selected Fragment": Sets a fragment type	S
	Button "Remove Marker(s)": Removes a current marker or fragment	Delete
	Button "Invert": Inverts time line fragments	I
	Button "Size": Calculate result file size (is available for AVI)	Ctrl + F
	Button "Trim": Starts trimming or Batch Processing (if batch queue has any task)	Ctrl + T
	Edit box of a left marker cursor time position. You can edit this value by manually	
	Edit box of a right marker cursor time position. You can edit this value by manually	

---

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### Start trimming process.

To start trimming process, after you set all the fragment you want to be deleted/saved, call **File -> Save Media File As...** (for details see [Menu "file"](#)) or **Save Media File As..** "quick button" (for details see [Information panel](#) ) or push "Trim" button (for details see [Splitting controls](#) )

**Note:** You can save (trim) any selected fragment by means of a slider context menu **Save Selected Fragment As..** point (for details see [Splitting controls](#))

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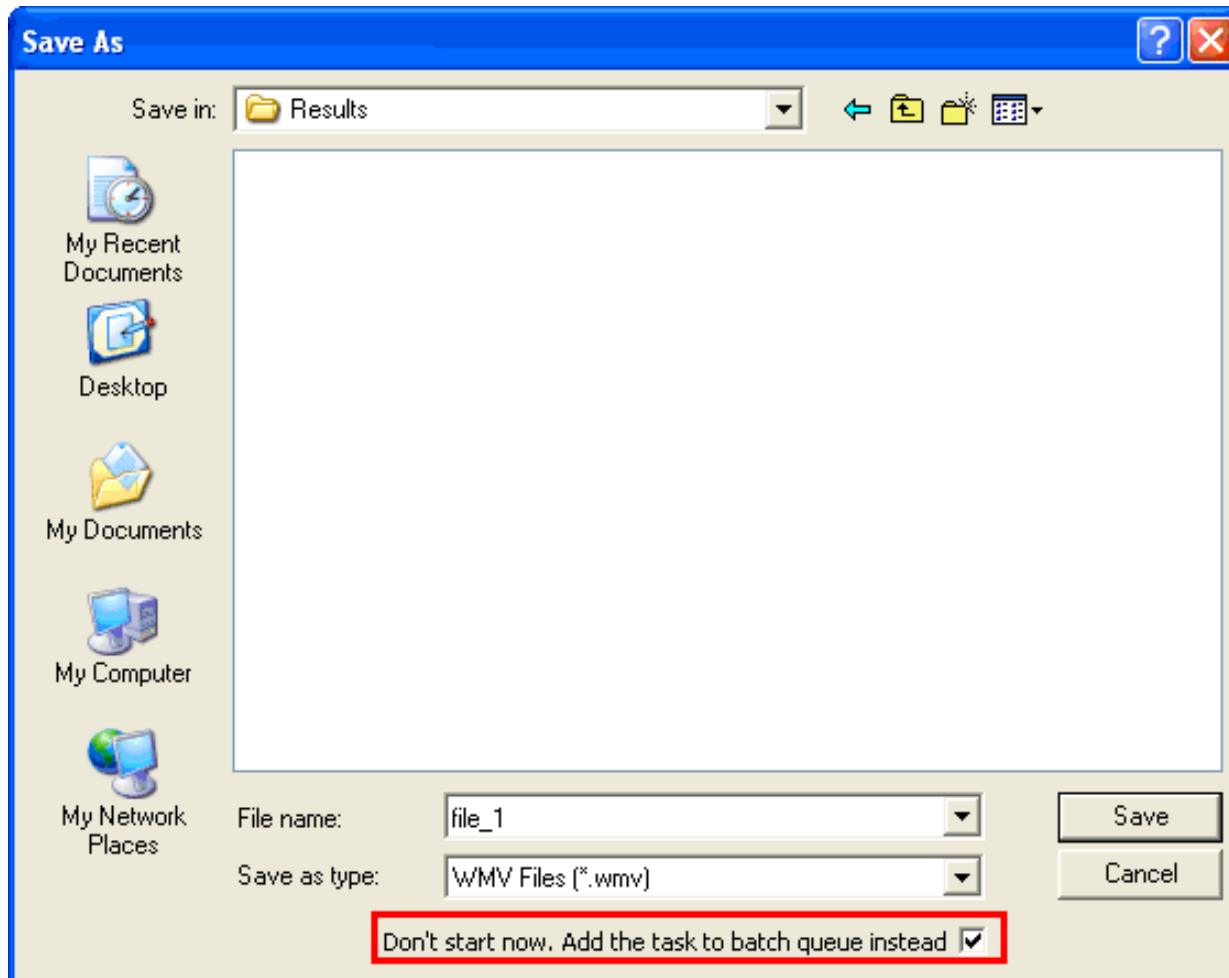
## Working with batch queue.

To create a new batch queue (task list):

1. Open a media file you want to edit, set all the fragments you want to be saved/removed. For details see [Opening source file](#) and [Solveig Multimedia Video Splitter interface](#)
2. Add the task to queue. For this call menu **Tools -> Batch Manager -> Add Task To Batch Queue**
3. Repeat 1 and 2 points for all the files you want to process.

See also: [Menu "Tools"](#), [Keyboard shortcuts](#)

Also you can add the task to queue by calling menu **File -> Save Media File As...**, or [Information panel](#) quick button, or **Save selected fragment as..** slider context menu (for detail see [Splitting controls](#)). You should set "**Don't start now. Add the task to batch queue instead**" check box as it is depicted below:



To open Batch Manager window call menu **Tools -> Batch Manager -> Show Batch Manager** or **Tools -> Batch Manager -> Load Task List...** to open task list file.

Batch Manager window allows you to change audio/video streams, "Obey samples times" attribute, delete any fragments, etc. For details see [Tasks queue field](#).

To edit the task you have to open it within Video Splitter, change fragments or settings, and update:

1. Select the task you need to be changed. Call menu **Edit -> Edit Task with Video Splitter** or **Edit Task with Video Splitter** of context menu or press Enter hot key. For details see [Tasks queue field](#), [Keyboard shortcuts](#)
2. Change the task within Video Splitter main window. To view existing fragments in Video Splitter you can use [Fragments list field](#). For this call **Show the Fragment in Video Splitter** of context menu, or press **Enter** hot key. For details see [Keyboard shortcuts](#)
3. After changing trimming settings in Video Splitter update the task in batch queue by calling **Tools -> Batch Manager -> Update Task** or menu **Edit -> Update Task** of Batch Manager window.

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## How-to.

- [register Solveig Multimedia Video Splitter](#)
- [open video file](#)
- [preview video clip](#)
- [navigate in your video](#)
- [set and delete markers](#)
- [set fragments to be kept or delete](#)
- [select video and audio streams](#)
- [fix audio/video synchronization](#)
- [start splitting](#)

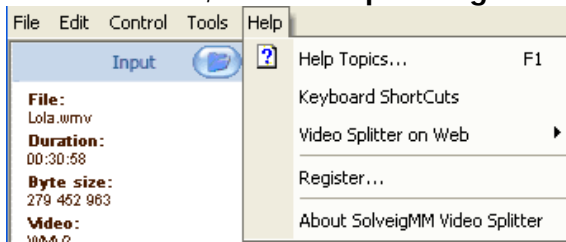
---

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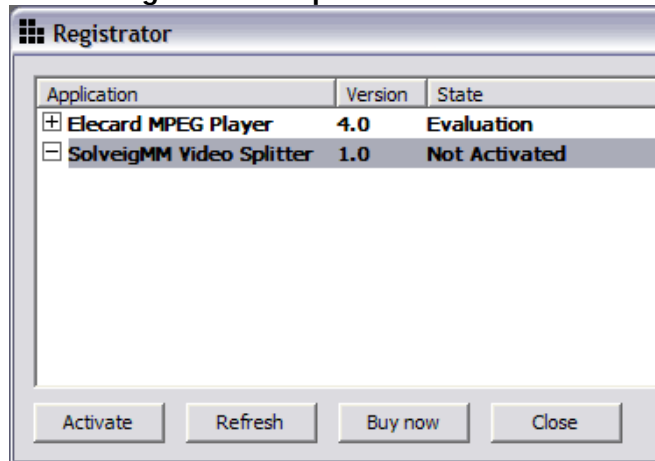
## How-to register Solveig Multimedia Video Splitter

To register Solveig Multimedia Video Splitter please do the following:

1. Go to the Menu bar, choose **Help** -> **Register**. Registrator window will appear

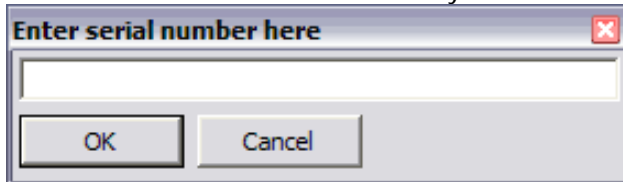


2. Select "**SolveigMM Video Splitter**" from the list.



3. If you already have serial number skip to step 4 else press "**Buy Now**" button. Web browser will bring you to 'Buy product' page. Please, follow the instructions on screen.

4. Press "**Activate**" button and enter your serial number, then press **OK** button



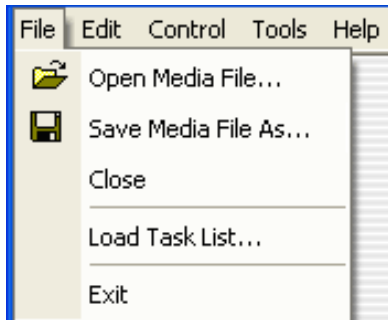
5. Registration completed!

**Note:** Registrator window will appear during evaluation period at every application launch. Registrator window will appear at application launch, application exit and in the beginning of splitting process after expiration of evaluation period.

## How-to open video file

To open your video file you intended to split, do the following:

1. Go to the Menu bar, choose **File** -> **Open Media File...**, standard Windows open file dialog will appear.
2. Locate your video file and press **Open**.



See also [Supported file formats](#), [Menu "File"](#)





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## How-to preview video clip

1. Open video file
2. To start playback press **Play** button. Also you can use **Edit -> Play** menu command or use shortcut key (Space)
3. To pause playback press **Pause** button. You can use **Edit -> Pause** menu command or shortcut key (Space) respectively
4. To stop playback press **Stop** button or choose **Edit -> Stop** from Menu bar.

Window element	Description	Shortcut key
	Button "Previous K Frame"	Left arrow
	Button "Next K Frame"	Right arrow
	Button "Play/Pause"	Space
	Button "Stop"	

See also: [Navigation controls](#), [Menu "Edit"](#), [Keyboard shortcuts](#)


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## How-to navigate in your video

1. To advance to the next K frame press **Next K Frame** button, or choose **Edit -> Next K Frame** menu item from Menu bar. You can use shortcut key (Right arrow) also.
2. To change the position to the previous K frame, press **Previous K Frame** button, or choose **Edit -> Previous K Frame** menu item. Shortcut key (Left arrow) also available.
3. Left click mouse on the timeline at desired position.
4. Type in desired time into edit box in Navigation controls in HH:MM:SS.mS format. Position will be automatically adjusted to the nearest previous K frame.

**Note:** You can switch off K frame positioning both to slider cursor and markers by calling menu **Control -> Slider K-Frame Positioning** è **Ñontrol -> Marker K-Frame Positioning**. Buttons **Next K Frame** è **Previous K Frame**, start go to nexx and previous frames (not K frames).

Windows element	Description	Shortcut key
	Button "Previous K Frame"	Left arrow
	Button "Next K Frame"	Right arrow

See also: [Navigation controls](#), [Menu "Edit"](#), [Menu "Control"](#), [Keyboard shortcuts](#)

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## How-to set and delete markers

To set a new marker do the following:



1. Navigate to the desired position
2. Press **Set new marker** button (M), or choose **Edit** -> **Set New Marker** menu item from Menu bar

To delete a marker:

1. Left click the marker you want to delete.
2. Press **Remove marker/fragment** button (Delete), or choose **Edit** -> **Remove marker or markers** menu item from Menu bar

To delete all markers from timeline select **Edit** -> **Clear All Marks** menu item from Menu bar, or use Ctrl + C shortcut

**Note:** markers will be deleted without any confirmation

Window element	Description	Shortcut key
	Button "Add Marker"	M
	Button "Remove Marker(s)"	Delete

See also: [Menu "Edit"](#), [Keyboard shortcuts](#), [Splitting controls](#)

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## How-to set fragments to be kept or deleted

To define a new fragment:

1. Navigate to the beginning of future fragment
2. Press **Set new marker** button (Ctrl + M), or choose **Edit** -> **Set New Marker** menu item from Menu bar
3. Navigate to the ending of the future fragment
4. Repeat step 2

To adjust fragment start and stop times:

1. Select marker at the beginning/ending of the fragment
2. Drag marker to the desired position (or use **Next K Frame/Previous K Frame** buttons)

To delete a fragment:

1. Left click the fragment you want to delete.
2. Press **Remove marker/fragment** button (Delete), or choose **Edit** -> **Remove marker or markers** menu item from Menu bar

**Note:** fragment will be deleted without any confirmation.

To set fragment to be kept or deleted:

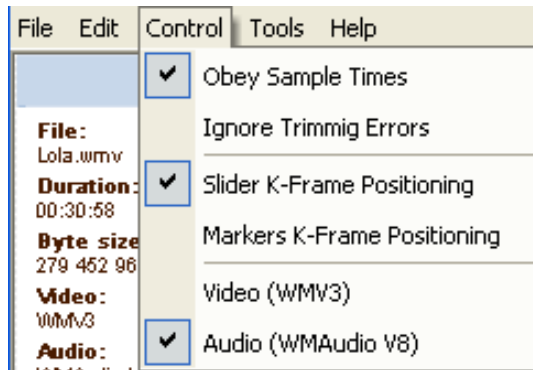
1. Left click the fragment you want to be kept or deleted.
2. Press **Cut Off/Keep On Selected Fragment** button ( S ), or choose **Edit** -> **Cut Off/Keep On Selected Fragment** menu item from Menu bar

Window element	Description	Shortcut key
	Button "Add Marker"	M
	Button "Cut Off / Keep On Selected Fragment"	S
	Button "Remove Marker(s)"	I

See also: [Menu "Edit"](#), [Keyboard shortcuts](#), [Splitting contros](#)

## How-to select video and audio streams

Solveig Multimedia Video Splitter allows you to choose audio and video streams that will be rendered into the final movie. To choose streams open menu "**Control**":



In lower part of menu is enumerated all the video/audio streams input media file contains. Choose streams you want to be presented in output file.

In depicted example only audio stream will be saved.

See Also: [Menu "Control"](#)

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## How-to fix audio/video synchronization

Solveig Multimedia Video Splitter is designed to split media files without loosing audio/video synchronization. However some media files are loosing synchronization after splitting. To avoid loosing sync, you may try to do the following:

1. Open your video file
2. Define fragments you want to keep in final movie.
3. Go to **Menu bar** and check **Control -> Obey Sample times** menu item.
4. Continue splitting process as usual.

See Also: [Menu "Control"](#), [How-to set fragments to be kept or deleted](#)

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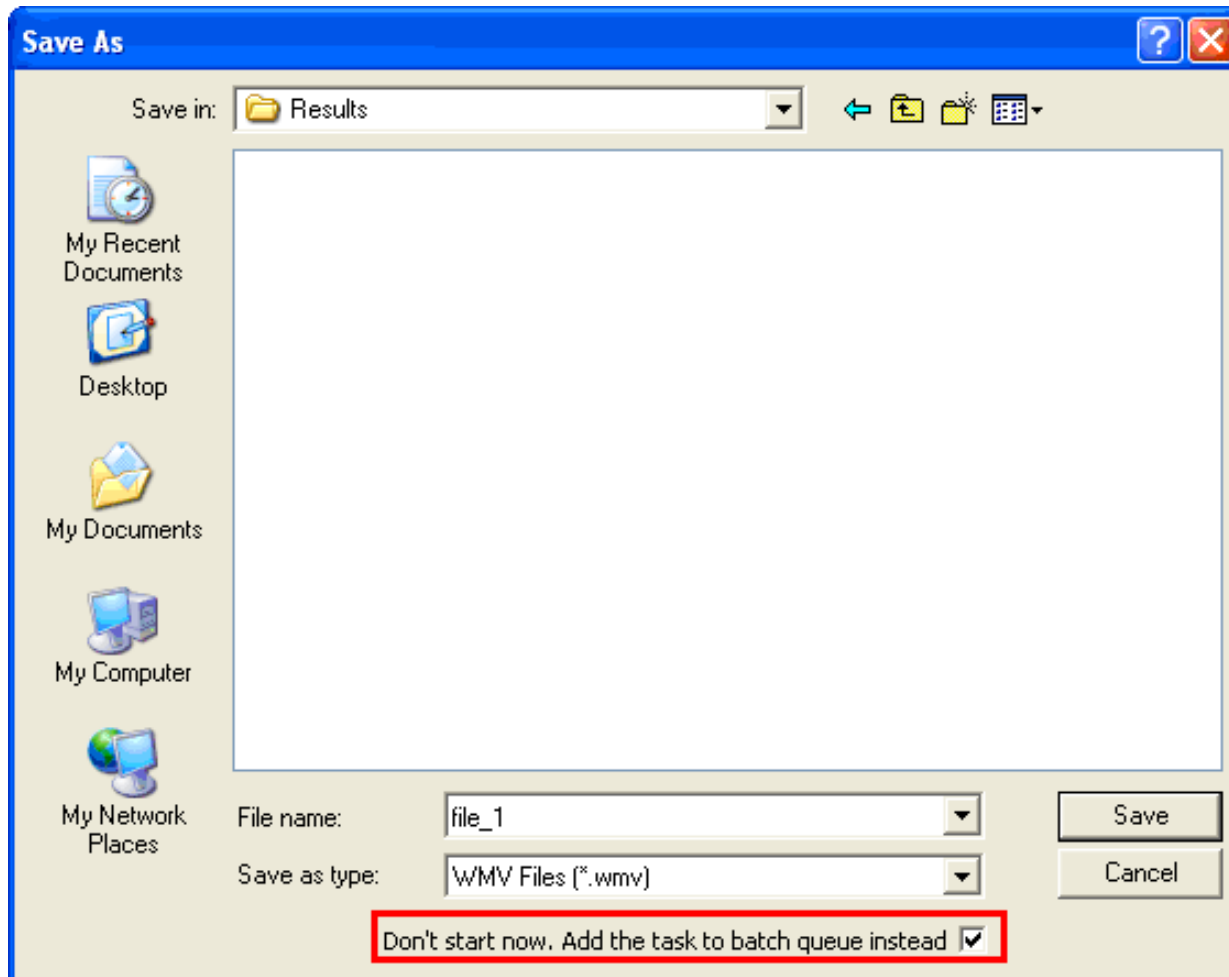
## How-to start splitting


To start trimming process you need to:

1. Open your video file
2. Define fragments you want to keep in final movie
3. Press **Trim** button (Ctrl + T), or select **Edit** -> **Start Trimming**
4. If you will be asked for file name, enter a file name for destination file and press **Save**. Progress bar will appear, indicating that splitting is in progress.

**Note:** Calling menu **File** -> **Save Media File As...** also starts trimming process.

**Note:** Instead of immediate trimming you can add task to a batch queue by setting "**Don't start now. Add the task to batch queue instead**" check box, as it is depicted below:



Window element	Description	Shortcut key
	Button "Trim": Start trimming process	Ctrl + T

See also: [Menu "Edit"](#), [Keyboard shortcuts](#), [Splitting controls](#), [Batch manager](#)

## Technical information

Video splitter was designed based on SolveigMM Video Editing SDK.

AVI Trimmer Component is the freeware demonstration of the SDK. Concerning SolveigMM Video Editing SDK please contact the Solveig Multimedia Technical Support Team: [support@solveigmm.com](mailto:support@solveigmm.com)

SolveigMM Video Splitter includes the following components:

Component	File Name	Description
SolveigMM AVI Trimmer	AVITrimmer.ax	DirectShow filter providing GOP accurate video/audio trimming operations for AVI and ASF formats.
SolveigMM AVI File Writer	AVI_Writer.ax	DirectShow filter intended for keeping A/V synchronization during AVI trimming with MPEG L3 VBR audio.
SolveigMM K Frame Manager	KeyFrameManager.ax	DirectShow filter providing K-Frame navigation
SolveigMM ASF Multiplexer	SMMASF.ax	DirectShow filter providing A/V multiplexing to ASF container format.
SolveigMM Video Editing Engine aka SolveigMM AVI Trimmer COM Object	AVITrimmerCOM.dll	COM object that allows video editing according to the user interface prepared script.

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### Batch file structure.

Batch files Video Splitter supports have extension - \*.xtl and based on DirectShow Editing Services XTL format.

*Note: All the sections and attributes are sensitive to keyboard case and must be in lower case. The values must be quoted ("").*

## timeline Element

The timeline element defines the timeline. This element is the root node in the XML file.

Example:

```
<timeline>  
</timeline>
```

### Attributes:

no attributes specified.

### Parent/Child Information

Parent	Children
No, this is root element.	<a href="#">group</a>

## group Element

The group element defines a group, the top-level object in a timeline.

Example:

```
<group name=".....">  
</group>
```

### Attributes:

Attribute name	Possible values	Must present?	Description
name	Any string without symbol ("")	Yes	The name attribute specifies output file name with path

### Parent/Child Information

Parent	Children
<a href="#">timeline</a>	<a href="#">track</a>

## track Element

The track element defines a track object (media files ).

Example:

```
<track video="..." audio="..." obey_sample_times="...">  
</track>
```

### Attributes:

Attribute name	Possible values	Must present?	Description
video	any number	No	The video attribute specifies number of video stream. 0 value means the output file has not to contain a video stream
audio	any number	No	The audio attribute specifies number of audio stream. 0 value means the output file has not to contain an audio stream
obey_sample_time	0, 1	No	The obey_sample_times attribute specifies to use alternative synchronization algorithm: 0 = Don't use obey_sample_time 1 = Use obey_sample_time

### Note:

By default if neither **video** nor **audio** is specified both of them equal 1; if one of the values presents - default value of missed parameter is 0; by default **obey\_sample\_time** equals 0.

### Parent/Child Information

Parent	Children
<a href="#">group</a>	<a href="#">clip</a>

### clip Element

The clip specifies a media source.

Example:

```
<clip src="..." start="..." stop="..." />
```

### Attributes:

Attribute name	Possible values	Must present?	Description
src	any string without symbol ("")	Yes	The src attribute specifies the path name of an input media file
start	HH:MM:SS.mS	Yes	The src attribute specifies start time of a fragment to be saved in output file.
stop	HH:MM:SS.mS	Yes	The src attribute specifies stop time of a fragment to be saved in output file.

### Note:

Within [track](#) section values of **src** attributes of all [clip](#) sections must be identical.

## Parent/Child Information

Parent	Children
<a href="#">track</a>	no

## Batch file example

```
<timeline>
  <group name="C:\video\result\Noname.avi">
    <track video="1" audio="2" obey_sample_times="0">

      <clip src="C:\video\Progulka.avi" start="00:00:00.00" stop="00:12:32.00" />
      <clip src="C:\video\Progulka.avi" start="00:32:41.00" stop="00:42:02.00" />
      <clip src="C:\video\Progulka.avi" start="00:54:09.00" stop="01:08:51.00" />

    </track>
  </group>
  <group name="C:\video\result\Noname1.avi">
    <track video="0" audio="1" obey_sample_times="1">

      <clip src="C:\video\Microcosmos.avi" start="00:11:48.08" stop="00:20:14.52" />

    </track>
  </group>
</timeline>
```

As result there should be created two files:

1) *C:\video\result\Noname.avi* - the file have to consist of three sequential fragments from *C:\video\Progulka.avi*

Start time	End time
<i>00:00:00.00</i>	<i>00:12:32.00</i>
<i>00:32:41.00</i>	<i>00:42:02.00</i>
<i>00:54:09.00</i>	<i>01:08:51.00</i>

The file will contain video stream and second of two audio stream to be contained in input media file.

2) C:\video\result\Noname1.avi - the file have to consist of one audio fragment from C:\video\Microcosmos.avi

Start time	End time
00:11:48.08	00:20:14.52

The file will contain only audio stream.

## Version History

### Solveig Multimedia products version history:

#### SolveigMM Video Splitter

##### Version 1.2.7.15 update Release Date: July 15, 2006

Fixes:

- The bug with Unicode file names e.g. with Chinese or Japanese symbols was fixed. Video Splitter was unable to open/same such files.
- The bug with opening/playing WMV files by Windows Media Player was fixed. After opening, WMP didn't start playing of WMV files produced by Video Splitter.
- The ASF files produced by Beholder TV Tuner was fixed. Video Splitter was unable to edit ASF files (DivX + PCM) captured within Beholder TV Tuner.
- Some more bugs with WMV video/audio trimming precise were fixed

Features:

- Some Menu, Context Menu and Batch Manager changes were made for GUI simplification.
- "Menu->Output File Name.." was changed to "Save Media File As..". This menu point sets out file name and either starts trimming or add task to batch queue.
- "Context Menu->Save Selected Fragment As..." point was added. This point operates like "Menu->Output File Name.." but with one fragment only.
- "Invert Time Line Fragments" command automatically adds additional markers if it is necessary.
- For now you can switch off "Markers K Frame Positioning" and "Slider K Frame Positioning"
- Ignoring Trimming Errors" feature was added. (It's used when WM/ASF Reader delivers error "the buffer is not big enough").
- All the features including Task List (batch) file format is documented.

##### Version 1.2.6.15 update Release Date: June 15, 2006

Fixes:

- The bug with WMV navigating was fixed (with some WMV files a navigation din not operate)

##### Version 1.2 beta

Release Date: June 13, 2006

Features:

- Batch files processing (trimming, saving/opening list file)
- Audio stream choosing ability was added (before, the first audio stream was trimmed )

Fixes:

- The bug with WMV last frame was fixed (often last video frame of WMV was not rendered)
- The bug with WMA inaccuracy was fixed
- Some trimming bugs concerning inaccuracy and video artifacts were fixed

Restrictions:

- Batch files processing is not documented for the present

### **Version 1.1.5.10 update Release Date: May 10, 2006**

Fixes:

- The bug with one of AVI streams splitting has been fixed ( if AVI had only one stream: video or audio, or a user selected only one stream to be trimmed the Splitter didn't operate )
- The bug with audio only of WMV/ASF splitting has been fixed ( if a user selected audio stream to be trimmed the Splitter didn't operate )
- The bug with audio AVI to ASF conversation has been fixed ( if a user selected audio stream to be trimmed to ASF file the Splitter didn't operate )

Enhanced:

- Positioning feature has been added. Now upon double-click to a marker, the slider jumps to a marker position

### **Version 1.1.5.02 release Release Date: May 02, 2006**

Enhanced:

- Buttons "Open file" and "Output File" have been added for usability to "Movie" and "Selection" sections
- Feature to "Index" or "Remux with indexing" for unindexed or damaged ASF and WMV files has been added
- Time Edit Boxes for markers and fragments are enabled to manual editing
- "Copy/Paste" feature has been added to time edit boxes of slider and markers
- Jumping to 1/20th of movie length forward and backward (Page Up, Page Down) and to a movie start/end positions (End, Home) has been added

Fixes:

- The bug with AVI damaging while trimming has been fixed (after trimming in lower part of video in some AVI files appeared artifacts)
- The bug with a last frame in timeline has been fixed (neither markers nor slider were allowed to be set to last frame)
- The bug with redrawing a video frame while dragging the Video Splitter in overlay mode has been fixed (now a frame is redrawn after dragging stops)
- The bug with filters enumerating in "icon"->"info" dialog has been fixed

**Version 1.1.3.24 beta Release Date: Mach 23, 2006**

Enhanced:

- Formatting "Byte Size" value has been added for usability (e.g. old value sight 1461925888 and new one is 1 461 925 888 )

Fixes:

- The bug with hanging after trimming completes has been fixed
- The bug with big DV files more than 7 minutes (slider time repeating) has been fixed
- The bug with estimating output AVI file size ( getting size process was not started) has been fixed
- The bug with trimming raw video AVI (e.g. RGB24 ) has been fixed

**Version 1.1 beta Release Date: December 20, 2006**

Features:

- Supports WMV format
- Supports ASF file format with any video (WMV 1,2,3, MPEG-4 AVC, DivX, etc) and audio (MPEG L. 1,2,3, AC3, WMAudio V 2,7,8, etc) content
- AVI to ASF re-multiplexing (without re-encoding)

Fixes:

- The bug with AVI contained MPEG1 layer 2 audio has been fixed
- The bug with Help calling has been fixed

Changes:

- SolveigMM ASF Multiplexer has been added to package

Restrictions:

- "Size" feature does not operate within WMV/ASF mode, and it is not documented for the present
- WMV/ASF support is not documented for the present

Note:

WMV/ASF supporting requires Windows Media Format 9 Series Runtime (to be shipped with Windows Media Player 9 and higher)

MS: <http://www.microsoft.com/windows/windowsmedia/9series/player.aspx>

Dptop Link: <http://www.dptop.com/app/wmfdist9.exe> (5 MB)

**Version 1.0.3.13      Release Date: December 28, 2005**

Enhanced:

- A feature of getting output AVI file size has been added

**Version 1.0.2.1      Release Date: October 30, 2005**

Fixes:

- The bug with messed control colors when Video Card bit depth is 24 or 8 bits has been fixed.

Changes:

- To avoid registration problems with COM components the following system DLLs have been added to installation: atl71.dll, msvcp71.dll, msucr71.dll

**Version 1.0 release      Release Date: September 24, 2005**

Enhanced:

- An input AVI file Drag and Drop feature has been added

#### Fixes:

- K frame navigation has been improved
- DV AVI type 1,2 preview has been added
- The bug when an initial output file was overwritten during a second trimming operation has been fixed.
- WYSIWYG feature ( i.e. precision ) has been improved
- Some issues with out of sync on some kind of AVI files have been fixed

#### Changes:

- An ability to register the version has been added
- An ability to view the filters info has been added

#### Known problems:

- Navigation problems with DivX decoders

#### **Version 1.0 beta    Release Date: August 12, 2005**

#### Features:

- Based on a freeware SolveigMM AVI Trimmer Component
- Supports any AVI file format (DV type 1 and 2, OpenDML) with any video (DivX, XviD, 3ivX, etc.) and audio (MPEG-1, MPEG-2 layer 3, AC3, etc.) content.
- Supports large AVI files (more than 2GB)
- Allows trimming AVI files contained VBR audio without synchronization loss
- Advanced K frame navigation
- K frame accuracy
- WYSIWYG preview
- Allows multiple fragment processing in single pass