VideoBrowser

Software Guide

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In addition to the functions above, VideoBrowser features some other convenient functions, Click "Contents" for more information.

English

Contents

Troubleshooting

Introduction

What you can do with VideoBrowser

With VideoBrowser, you can edit and write video files after importing from the camcorder.

∗ MP4 files and still image files are not supported.

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POWERED BY
You Tube

About this guide

■ How to use this guide

● This guide does not mention basic operations of Windows Operating System. Menu selection and window operations are based on general operation procedures of Windows Operating System.

● It is prohibited to reproduce the content of this guide, fully or partially, without notice.

● The content of this guide may be modified without notice.

● Please contact our User Support Center if you have any questions.

● Illustrations in this guide show screen captures of the software under development. They may be different from the actual software.

● Symbols used in this guide stand for the following meaning.

Symbol	Meaning
	Clicking this symbol returns to the top page.
	Clicking this symbol returns to the content page.
	This symbol indicates an important notice regarding the operation.
	This symbol indicates a useful hint for the operation.
	This symbol indicates a reference page relating to the topics.

■ Trademarks

● VideoBrowser™ is a trademark of PIXELA CORPORATION.

● Windows® is a registered trademark of Microsoft Corporation in the U.S.A. and other countries.

● The official name of Windows is Microsoft® Windows® Operating System.

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DOLBY
DIGITAL
STEREO CREATOR

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● Blu-ray™ is a trademark of the Blu-ray Disc Association.

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● The ® and TM marks have been omitted on some pages of this guide.

Precautions

■ Notes for operation

● If recorded and/or edited content includes copyrighted works created by third parties, you are not allowed to use them without notice to the copyright owner except for personal use.

● Use an AC adapter to power a notebook computer.

● Use the compact power adapter to power the camcorder.

● Connect the camcorder and the computer directly with a USB cable. Operation using USB hubs is not guaranteed.

● Do not put the computer in Standby mode when a camcorder is connected.

● Read-protected data and copy-protected data cannot be imported.

● Do not operate other software while writing a disc.

● You cannot use VideoBrowser and other PIXELA software that came bundled with a different Canon camcorder at the same time.

■ Operating limitations

● While VideoBrowser is running, do not switch user accounts and do not set the computer to Sleep, Hibernate or Standby mode.

● If the computer is configured to automatically enter a power saving mode after a certain period of time, change the Power Options in the Control Panel in advance.

● Unicode is not supported in VideoBrowser.

● Even if video recordings are in a supported format, you may not be able to use them depending on the recording method.

● You cannot use VideoBrowser when connecting two or more camcorders to the computer.

● System folders, Windows-only folders, the root directory C:\ and optical drives cannot be selected as the destination to import files from the camcorder and to export files from VideoBrowser.

● Disc writing cannot be performed if the Windows file system is FAT32.

● For [Destination of video files] in the Preferences, select a destination whose length is up to 150 bytes long including the directory path.

● For [Workspace] in the Preferences, select a destination whose length is up to 200 bytes long including the directory path.

● VideoBrowser may not operate correctly when a disc writing software other than VideoBrowser is installed. In this case, we recommend not to use multiple disc writing applications at the same time.

● When erasing data on a rewritable disc, the progress bar may not be displayed correctly depending on the drives used.

- While a disc is being written, do not start any operation that may access the hard disk designated as [Workspace]. If any free space on the [Workspace] hard disk is used for any purpose other than creating the disc, the creation of the disc may be interrupted. If other programs are set up to automatically receive files and save them on the [Workspace] hard disk (download files from the Internet, receive e-mail, update antivirus profiles, Windows Update, etc.), close those programs or set them up so files will not be received and saved automatically.

- Discs created with VideoBrowser may not be played back on some players.

- When playing back a disc using VideoBrowser, playback will not seem smooth during fast playback (forward or backwards).

- When handling videos in x.v. Color, which were recorded using the camcorder with which VideoBrowser is bundled, note the following limitations:
  - x.v. Color is not applied to videos that were recorded in MXP mode and then written on a disc in AVCHD standard.
  - When editing videos, if you use video files whose resolutions are 1920x1080 pixels and 1440x1080 pixels at the same time, x.v. Color is not applied while the video from 1440x1080 pixels file is being played back.
  - When editing videos, if you set a text or a transition over videos recorded in x.v. Color, x.v. Color is not applied while the these editing is being played back.

- Disclaimer regarding the YouTube upload function
  When using the YouTube upload function, the number of videos uploaded per hour may be restricted according to YouTube specifications. Also, full operation cannot be guaranteed for future modifications of the YouTube specifications, or for every environment.

- Refer to the following Web site for the latest information about operating limitations.

  http://www.pixela.co.jp/oem/canon/e/

System requirements

Requirement		Windows XP	Windows Vista	Windows 7
OS version (English)		Home Edition Professional Edition ✳ 32 bit version only ✳ SP3 must be installed	Home Basic Home Premium Ultimate Business Enterprise ✳ Compatible with 32 bit and 64 bit ✳ SP2 must be installed	Home Premium Professional Ultimate Enterprise ✳ Compatible with 32 bit and 64 bit ✳ XP mode is not supported ✳ SP1 must be installed
CPU		Intel Pentium D 3.0GHz or higher Intel Core 2 Duo 2.13GHz or higher ✳ Intel Core 2 Duo 2.33GHz or higher is recommended when using video files recoded in MXP mode. Intel Core i3 2.13GHz or higher		
Memory		1 GB or more	2 GB or more	
Free space in the hard disk to install software		200 MB or more		
Free space in the hard disk to write a disc	DVD	At least three times the volume of data to be written on the disc.		
	AVCHD			
	Blu-ray	At least twice the volume of data to be written on the disc.		
	DataDisc	At least the same volume of data to be written on the disc		
Display		1280x1024 pixels or more, 32 bit or more, Intel G965 (onboard VGA) or higher		
Drive		Built-in disc drive with DVD writing capabilities Disc drive with Blu-ray writing capabilities		
Others		• Standard USB 2.0 port • A card reader/writer that supports SD/SDHC Memory Cards (when exporting files) • An environment in which DirectX 9.0c operates properly • An Internet-accessible environment for software installation and Web uploading (YouTube and Facebook) • An environment in which .NET Framework 2.0 or higher operates properly • iTunes 9 or 10 (when using exported file converted for iPod use) • iTunes 9.2 or 10 (when using exported file converted for iPad use) • Internet Explorer 7/8/9 • Adobe Reader (to open the Software Guide - this document)		

✳ Operations on built-to-order computers are not supported.
✳ To install and use this software, you must be authorized as an Administrator.
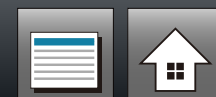
Usable videos

■ Supported files

VideoBrowser can handle the following videos:

1. Video files recorded with the CANON camcorder with which VideoBrowser or Transfer Utility is bundled.
2. Video files that were edited and exported using above video files with VideoBrowser.
3. Video files written on a disc using VideoBrowser.*
4. Video files recorded with the CANON camcorder with which any of ImageMixer 3 SE in the right box is bundled.
5. Video files that were edited and exported using any of ImageMixer 3 SE in the right box.
6. Video files written on a disc using any of ImageMixer 3 SE in the right box.*

∗ Except for DVD-Video discs.

ImageMixer 3 SE series
● ImageMixer 3 SE
● ImageMixer 3 SE Ver.3
● ImageMixer 3 SE Ver.5
● ImageMixer 3 SE Ver.6

■ Supported format

Article	Read	Export
Standard	SD-Video AVCHD BD-R 2.0 BD-RE 3.0	DVD-Video AVCHD BD-R 2.0 BD-RE 3.0
File format	H.264/AVCHD (.mts, .m2ts) MPEG-2(.mpg, .mpeg) WAVE (.wav, .wave) 　∗ For music files, use a file longer than 0.5 second and the quantization bit rate is 16bit.	Video file editing: H.264(.m2ts) Web upload (YouTube,Facebook): MPEG-2 (.mpg) / Windows Media Video (.wmv) Video file export (for video sharing Web site): Windows Media Video (.wmv) Video file export (for computer): MPEG-2 (.mpg) Video file export (for iTunes): QuickTime Movie (.mov) Music file export: WAVE (.wav, .wave) files in linear PCM 　∗ To export a music file, the file must meet the conditions on P.80 .
Disc	DVD-R, DVD-R DL DVD-RW BD-R, BD-R DL BD-RE, BD-RE DL 　∗ 8cm disc is not supported.	DVD-R, DVD-R DL DVD-RW BD-R, BD-R DL BD-RE, BD-RE DL 　∗ 8cm disc is not supported. 　∗ You cannot add recordings onto discs that have already been recorded. 　∗ When using a rewritable disc, recorded data will be erased before writing.

Installation

Install VideoBrowser to your computer. Before installing, connect to the Internet if available.
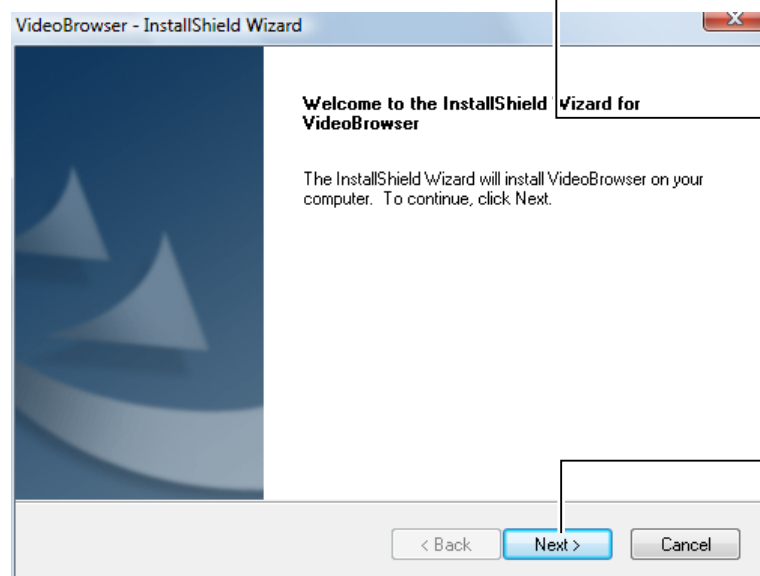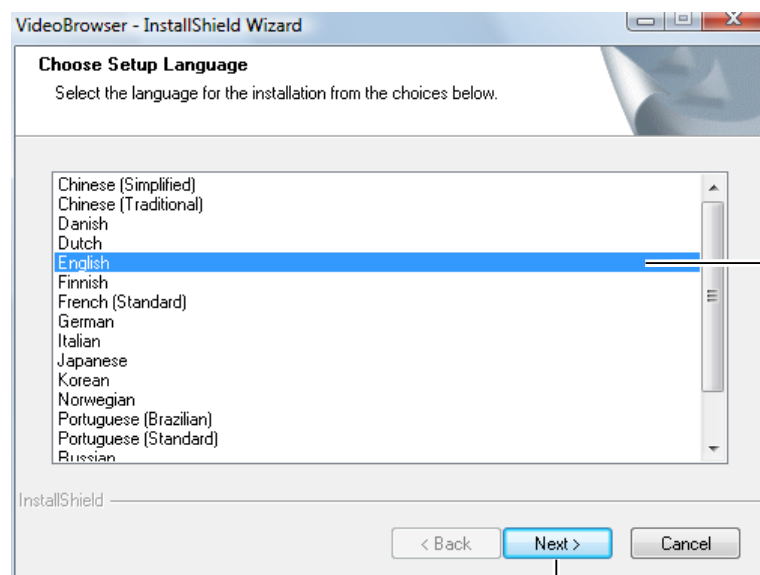
1 Insert "PIXELA VideoBrowser Ver.X.X" disc to the computer.

＊ "X.X" varies depending on the version of the software that you use.

➡ The installation screen will be displayed.

＊ Click [Continue] (Windows Vista) / [Yes] (Windows 7) if the [User Account Control] dialog box is displayed.

＊ If Transfer Utility is already installed, uninstall Transfer Utility first.
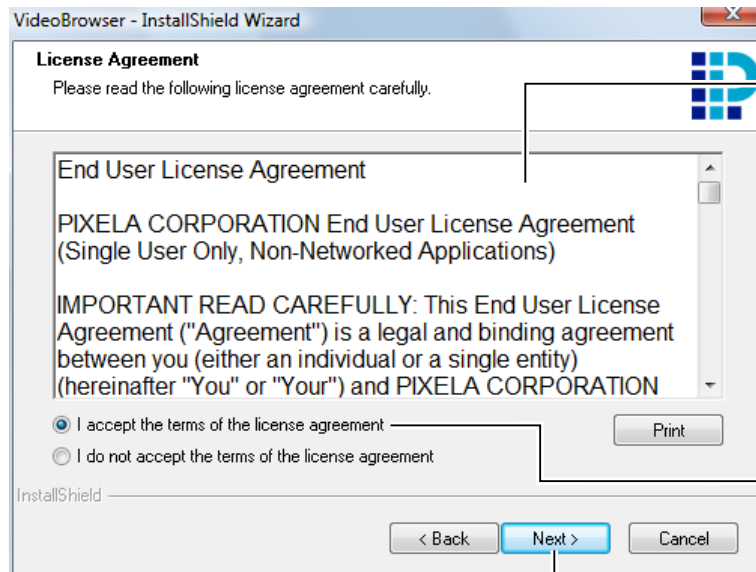
⚠ **If installation screen is not displayed...**

If the installation screen (left screen) is not displayed, open the disc drive window from the [My Computer] (Windows XP)/[My Computer] (Windows Vista/Windows 7) in the [Start] menu, and double-click [setup.exe].

2 Select your language.

3 Click [Next].

4 Click [Next].

VideoBrowser - InstallShield Wizard

License Agreement
Please read the following license agreement carefully.

End User License Agreement

PIXELA CORPORATION End User License Agreement
(Single User Only, Non-Networked Applications)

IMPORTANT READ CAREFULLY: This End User License
Agreement ("Agreement") is a legal and binding agreement
between you (either an individual or a single entity)
(hereinafter "You" or "Your") and PIXELA CORPORATION

◉ I accept the terms of the license agreement
◎ I do not accept the terms of the license agreement

Print

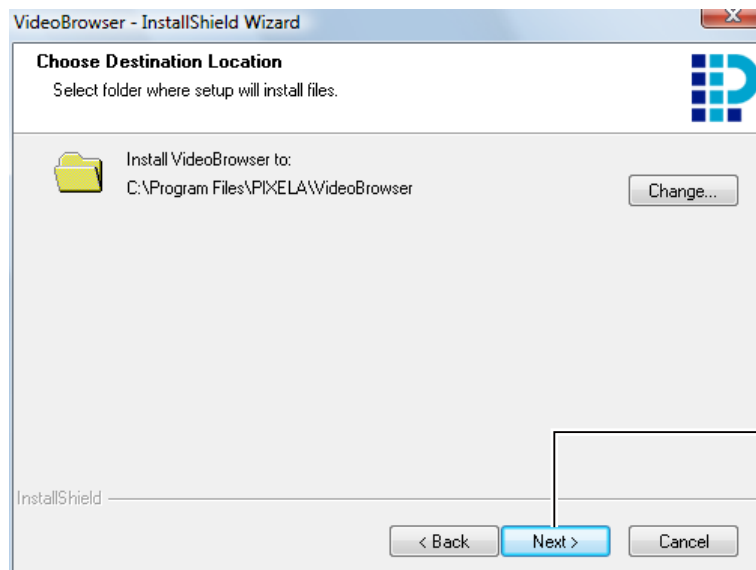InstallShield

< Back   Next >   Cancel

5 Confirm the License Agreement.

6 Click [I accept the terms of the license agreement].

＊ You may not be able to use this software unless you accept the agreement.

7 Click [Next].

VideoBrowser - InstallShield Wizard

Choose Destination Location
Select folder where setup will install files.

Install VideoBrowser to:
C:\Program Files\PIXELA\VideoBrowser

Change...

InstallShield

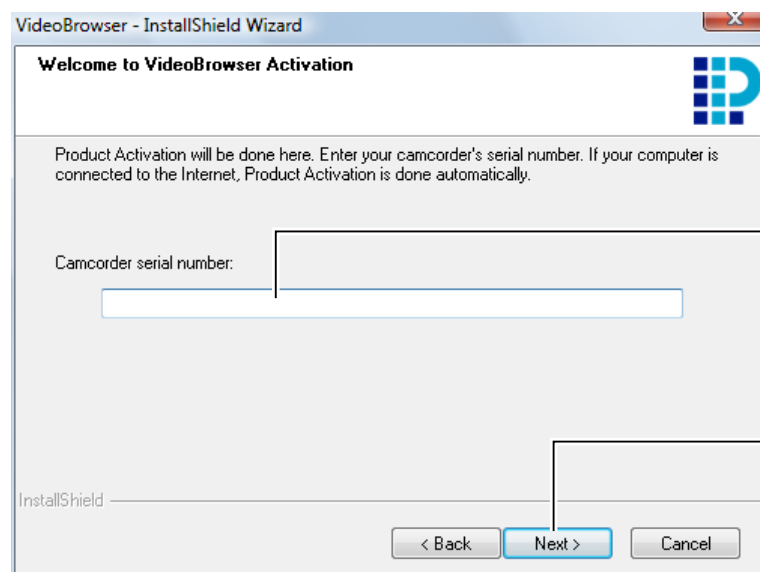< Back   Next >   Cancel

8 Click [Next].

If you want to change the destination, click [Change...] and specify the destination.
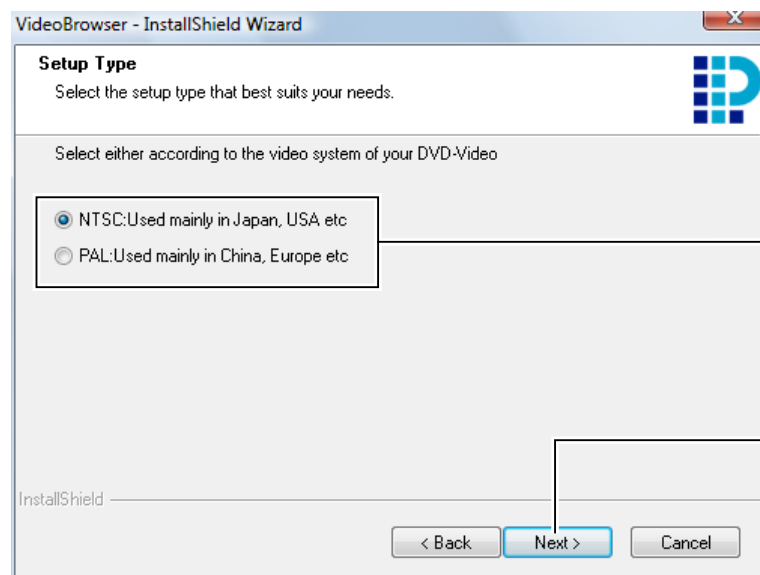
9 Select your local video system.

  ✱ Change the video system in the Preferences P.82 if the video system set in this step is different from that of camcorder.
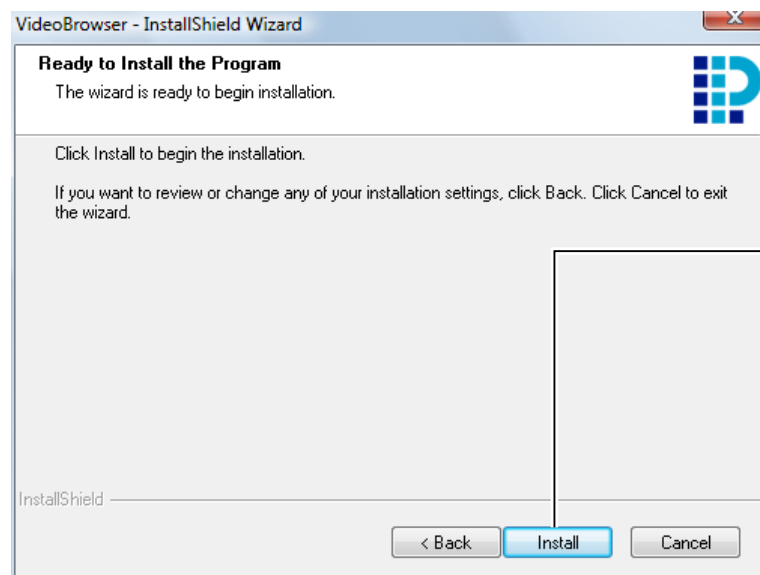
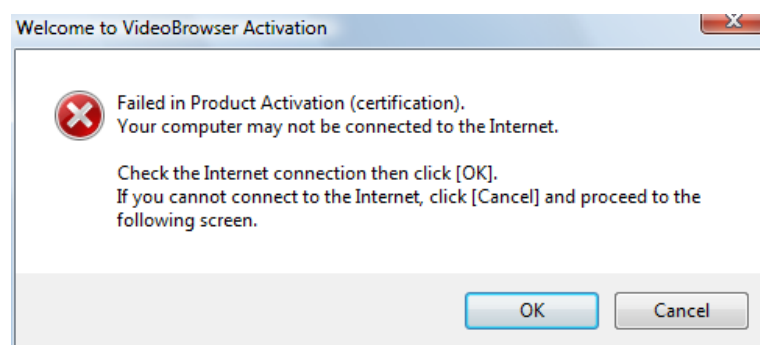**10** Click [Next].

11 Enter your camcorder's serial number

  Enter the 12-digit number on the camcorder.

12 Click [Next].

Installation

13 Click [Install].

➡ Click [OK] when the message telling that the product activation has been finifhed successfully appears.
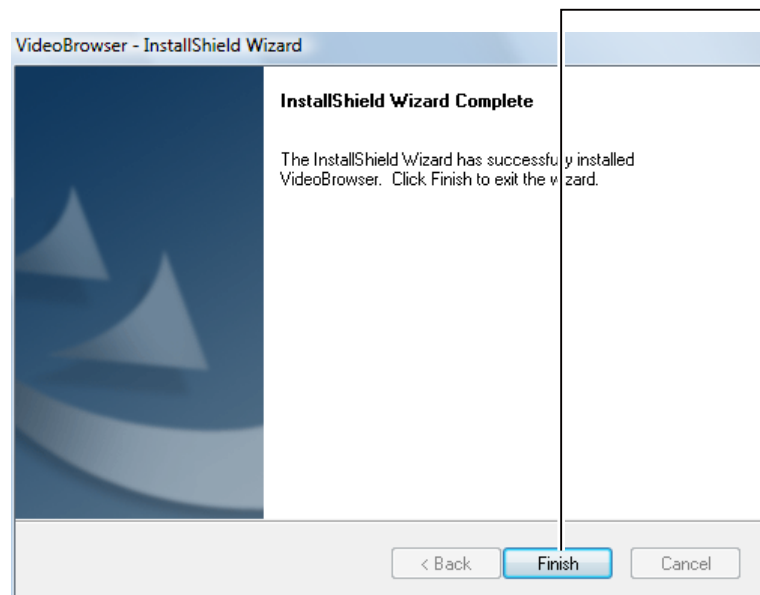
⚠ **If the message that the product activation failed appears...**

The message on the left will be displayed if your computer is not connected to the Internet.

• If you have an Internet-accessible environment, click [OK] after accessing to the Internet.

• Click [Cancel] if you do not have an Internet connection. The window to enter the certification code will be displayed. Contact our User Support Center P.92 and acquire the certification code then enter it.

∗ When using security software, the registration of the certification code may not be performed properly depending on the firewall settings. In this case, change the settings of the security software, or exit the security software and install VideoBrowser. Refer to the manual of the security software to change the settings.

VideoBrowser - InstallShield Wizard

InstallShield Wizard Complete

The InstallShield Wizard has successfully installed
VideoBrowser. Click Finish to exit the wizard.

< Back   Finish   Cancel

Q&A about installation   P.85

14 Click [Finish].

➡ The installation of VideoBrowser is completed. The Software Guide (this document) is also installed and following shortcuts are placed on the Desktop.

VideoBrowser (software)

VideoBrowser Software Guide

VideoBrowser Homepage

PIXELA Product Registration

The installation screen of Network Utility will be displayed continuously. Follow the instructions on the screen and finish installation.

∗ An wireless LAN (Wi-Fi) environment is required to use Network Utility.

∗ Refer to the Software Guide of Network Utility for installation and operations.

Starting VideoBrowser (Connecting camcorder)

VideoBrowser starts automatically when the camcorder is connected.

∗ For camcorder operation, refer to the instruction manual of the camcorder.

1 Connect the camcorder to a wall outlet using the compact power adapter.

2 Turn on the camcorder and set it to movie playback mode.

∗ You cannot import video files in still image playback mode.

3 Connect the camcorder and the computer with the USB cable supplied with the camcorder.

Connect directly to the computer. Operation using a USB hub is not guaranteed.

4 Select [All (for PC only)] in the camcorder's LCD.

∗ This step is not required with some camcorders.

➡ Click [Continue] (Windows Vista) / [Yes] (Windows 7) if the [User Account Control] dialog box is displayed.

Start by other methods

You can also start in the following ways. Note that you cannot use some functions such as importing when the camcorder is not connected.

- Start from the shortcut icon.
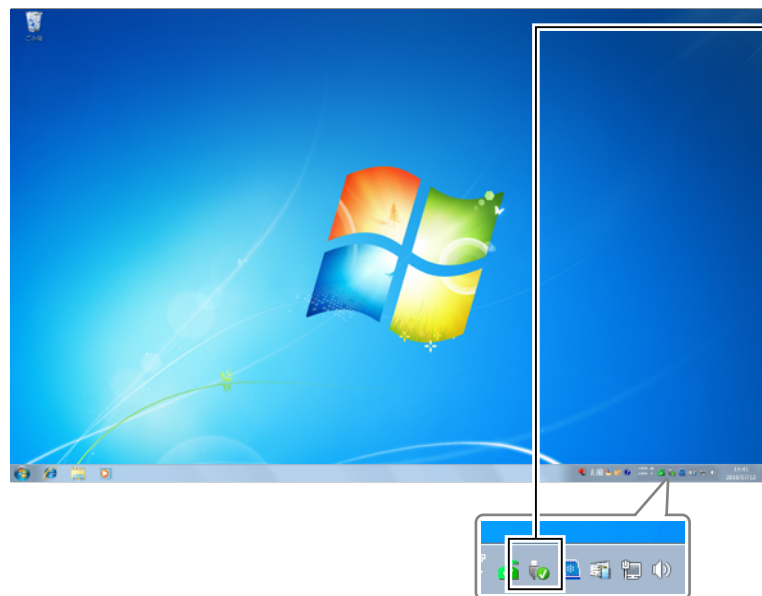 Double-click the shortcut icon on the Desktop.

  VideoBrowser

- Start from the [Start] menu.
  Select [Start]menu - [All Programs] - [PIXELA] - [VideoBrowser] - [VideoBrowser].

Disconnecting the camcorder

1 Click 🔌 in the task tray.

Click 🔌 on Windows XP.

✱ If the icon is not found, click ▲ (Windows Vista / Windows 7) or ⬅ (Windows XP) to show the icon.

✱ Close all dialog boxes and setting screens before clicking the icon.

2 Click the article of the camcorder.

The letter that appears as "(X:)" varies depending on the computer.

Windows XP / Windows Vista
[Safely remove Mass Storage Device -Drive(X:)]. 　✱ If multiple choices are displayed, select the drive corresponding to the camcorder.
Windows 7
[Eject CANON(X:)] 　✱ If two or more "CANON(X:)" are displayed, click all "CANON(X:)".

3 Disconnect the USB cable.

⚠ **When disconnecting the camcorder...**

If the camcorder is disconnected from the computer while using VideoBrowser, video files in the camcorder may be damaged. Always follow the instructions when disconnecting the camcorder from the computer.

Uninstallation

Remove VideoBrowser from your computer. Exit VideoBrowser before uninstalling.

■ Windows XP

1. Click the [Start] menu.

2. Click [Control Panel].

3. Click [Add or Remove Programs].

4. Select [VideoBrowser] and click [Remove].

5. Click [OK].

6. Click [Finish]

7. Delete administrative files if necessary (see right).

■ Windows Vista / Windows 7

1. Click the Start menu.

2. Click [Control Panel].

3. Click [Uninstall a program].

4. Select [VideoBrowser] and click [Uninstall].

5. Click [Continue] (Windows Vista)/[Yes] (Windows 7).

6. Click [OK].

7. Click [Finish]

8. Delete administrative files if necessary (see right).

⚠ Deleting the files used in VideoBrowser

Deleting administrative files

Delete [Import Mgr Data] folder in the following location:

Windows XP
C:\Documents and Settings\(User account name)\My Documents
Windows Vista / Windows 7
C:\Users\(User account name)\(My) Documents

Deleting video files

Delete [Import Video Data] folder in the following location:

Windows XP
C:\Documents and Settings\(User account name)\My Documents\My Video   ∗ Files are saved in "My Documents" if "My Video" does not exists.
Windows Vista / Windows 7
C:\Users\(User account name)\(My) Videos   ∗ Files are saved in "(My) Documents" if "(My) Videos" does not exists.

Deleting music files

Delete [Import Music Data] folder in the following location:

Windows XP
C:\Documents and Settings\(User account name)\My Documents\My Music   ∗ Files are saved in "My Documents" if "My Music" does not exists.
Windows Vista / Windows 7
C:\Users\(User account name)\(My) Music   ∗ Files are saved in "(My) Documents" if "(My) Music" does not exists.

Operations in the Library screen (start screen)

Screen components

Following screen will be displayed when you start VideoBrowser.

Menu Panel

Click the button to proceed to the operation screen that you wish to use.

Import video files.

Upload to YouTube.

Export video files.

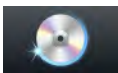Export music files.

Edit video files.

Upload to Facebook.

Convert video file format.

Play back a disc created with VideoBrowser.

Write a disc.

Open the instruction manual (this document).

Guidance

The explanation will be displayed when you hover the mouse cursor over a button in the Menu Panel.
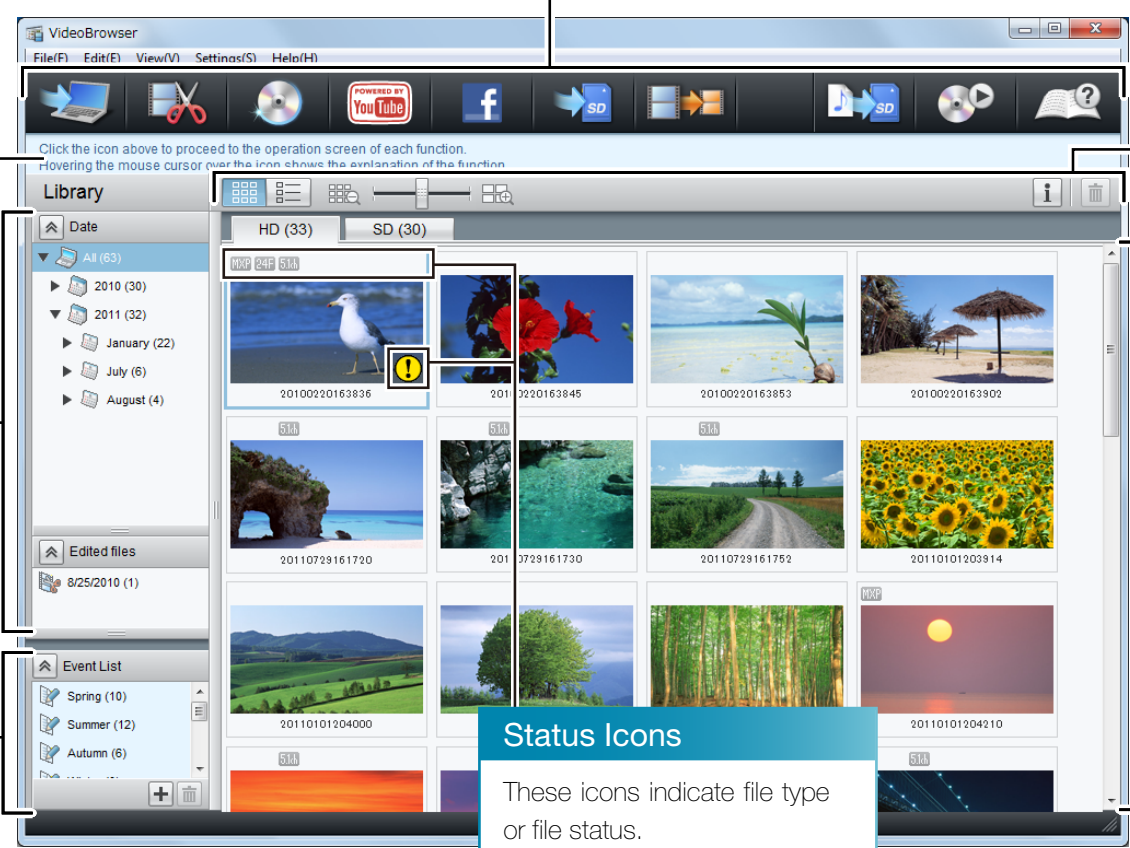
Library

Imported video files are classified by date. Edited files are added to [Edited].

Event List

You can sort video files according to your theme or purpose.

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Operation Panel

You can perform following operations:
- Change display type and size.
- Display detail information of the video file.
- Delete video files.
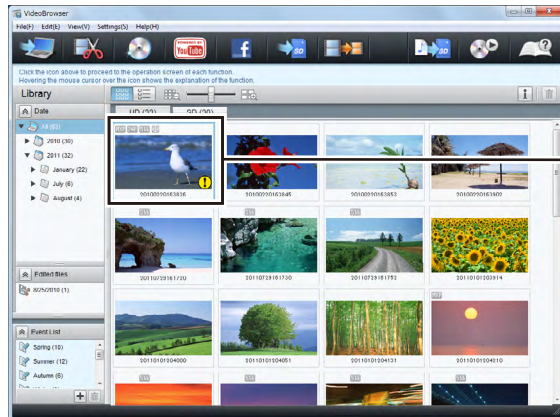
P.22

Browser Panel

A list of video files included in the date folder in the Library or the event folder that you selected. Status Icons P.21 will appear depending on the file type or status.
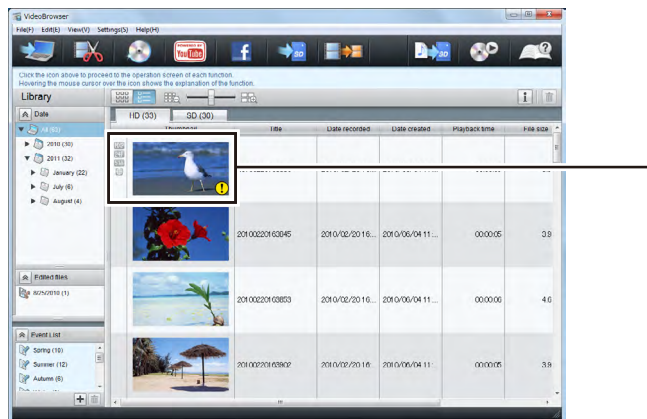
Status Icons

These icons indicate file type or file status.

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Screen components

■ Thumbnail view

■ List view

Status Icons

Following icons will appear depending on the file type or status.

MXP

A video file recorded in MXP mode.
- When the disc type is "AVCHD", the picture quality of the file will be that of FXP, and x.v. Color is not applied.
- To write video files of MXP as is, select "Blu-ray" or "DataDisc" for the disc type.

24F

A video file recorded in "24F" frame rate.

＊ Not available with some camcorders.

- When you choose "for computer" to convert file format, the file's frame rate will become "60i".
- Files with this icon will be excluded when writing a disc in "DVD-Video".
- If you write a disc in "AVCHD" or "Blu-ray" with the video files are combined, you cannot include the files with other frame rates. You can write if you use "24F" files only.
- When editing video files, you cannot use files with this icon and other files at the same time. You can edit if you use "24F" files only.

5.1ch

A video file whose audio channel is 5.1ch.

＊ The audio channel will become 2ch when a video file is being played back on VideoBrowser.

Note that 5.1ch audio will be converted to 2ch in the following cases:

- Writing in "DVD-Video"(files are combined), "AVCHD", "Blu-ray" together with the video files of 2ch audio.
- Exporting a file after editing. Except for the cases that you clip out 5.1ch files only and combine 5.1ch files of the same resolution without applying any other editing.
- Converting the file format to "iTunes (for iPod)", "iTunes (for iPad)", and "For video sharing Web site".
- Uploading the file to YouTube.

A video file uploaded to YouTube or Facebook.

An unavailable file since it is deleted or moved from the original destination after importing. P.86

Basic operations

Change file layout

Change the file layout in the Browser Panel

Files are displayed in the thumbnail form.

Files are displayed in the list form.

Change display size

Drag the slider. Drag to right to magnify, left to demaginify.

Show file information

Select a file and click this button. You can also enter new a name in the Title box.

Select file type

Click the tab to display the HD files or SD files only.

Delete files

Select files and click this button.

Display files

Click the year, month, and date folder to display. Clicking ▶ shows the folders included.

Click [All] to show all files.

Arrange in order

Click the headings. you can change the order of headings by dragging&dropping.

∗ Available when displaying in the list form.

Arrange files

Drag&drop the files to arrange.

Extend/retract the area

Drag the line to extend/retract the area.

Clicking ⌃ hides all folders in the article. Click again to show the folders.

Play back a file

Click ▶ which is displayed when hovering mouse cursor on a file. You can also play back by double-clicking a file.
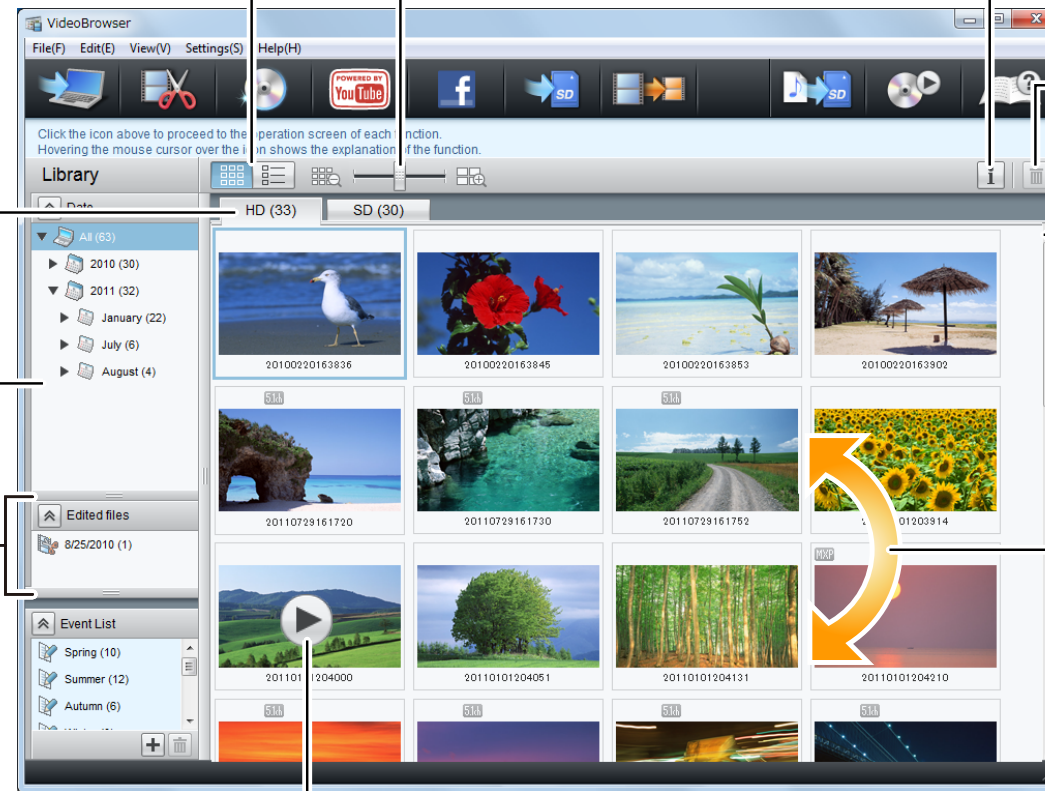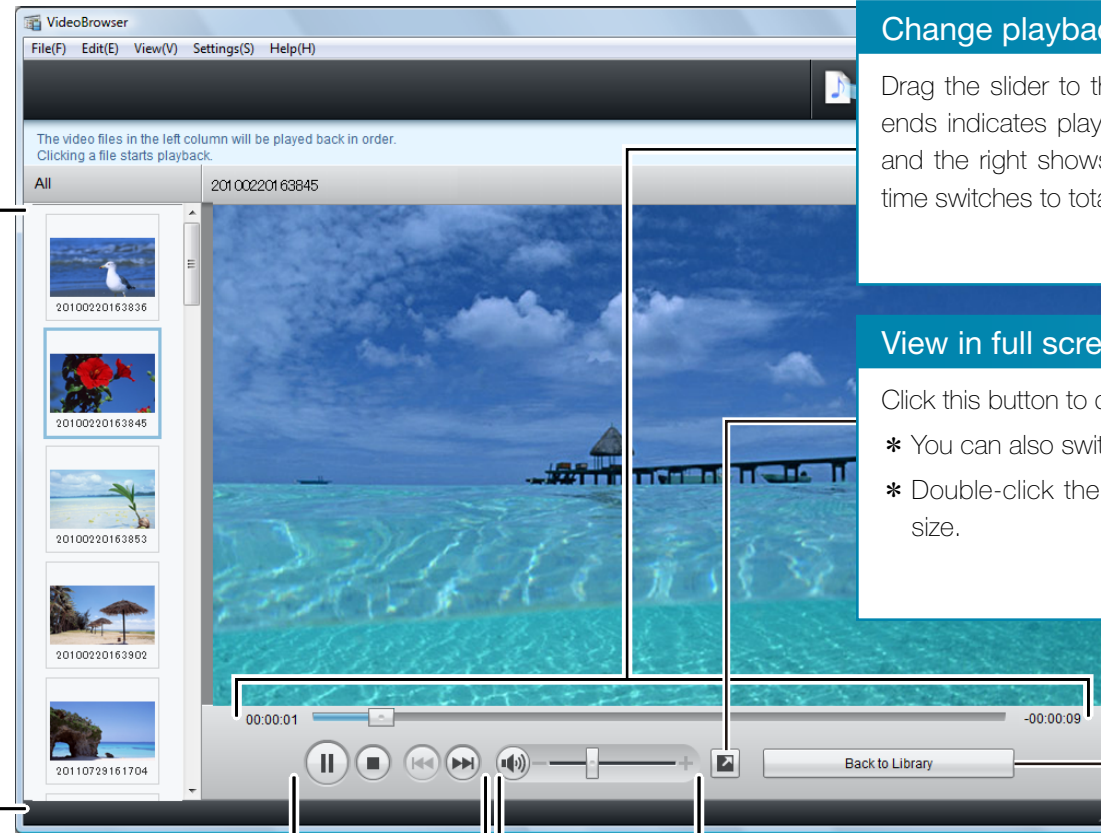
Playback operations

Check playback order

A list of video files included in the date folder or Event List in the Library is displayed.

Clicking a file starts playback.

Change playback position

Drag the slider to the position to display. The time on the both ends indicates playback time: the left shows the time elapsed, and the right shows the time remaining. Clicking the remaining time switches to total playback time.

View in full screen

Click this button to display in full screen.

❋ You can also switch to full screen by double-clicking the screen.

❋ Double-click the screen again to return to the original screen size.

Return to the Library

Click this button to return to the Library.

View

▶	Start playback.	⏮	Play back previous video file.
⏸	Pause playback.	⏭	Play back next video file.
⏹	Stop playback and return to the beginning of the video file.		

Adjust volume

Drag the slider. Clicking 🔊 mutes audio. Click again to unmute.

Operations in full screen

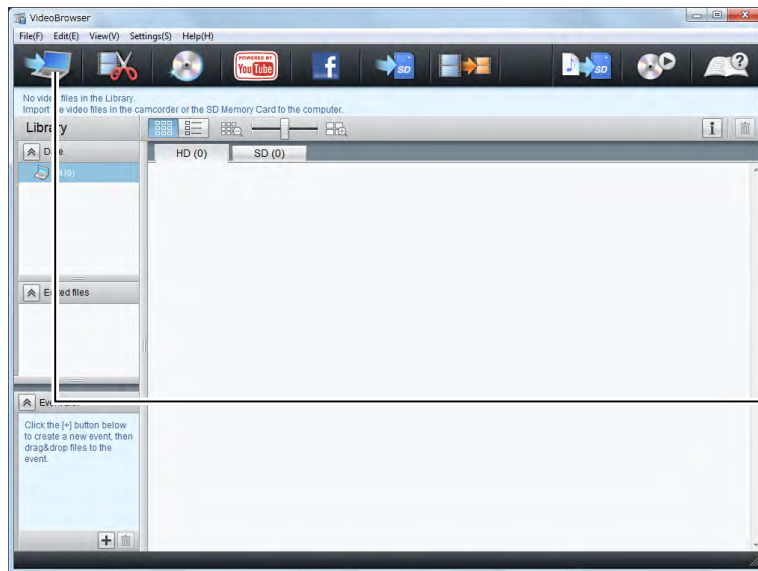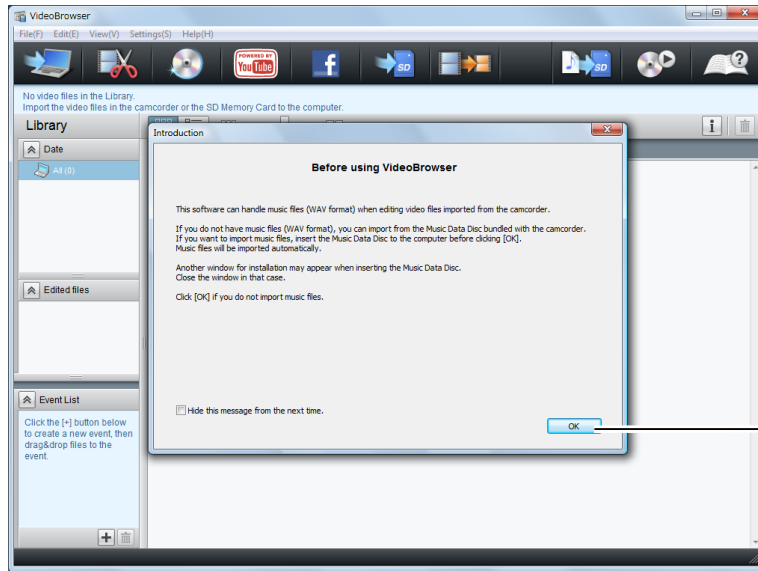You can operate with the following keys on the keyboard.

Key	Function
Esc	Return to original screen size.
Space	Play back/pause
←	Play back previous video file.
→	Play back next video file.

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Import video files to the computer

Preparation

Import video files in the camcorder to the computer.

＊ MP4 files and still image files are not supported.

1 Connect the camcorder or the device to import from with the computer.

Refer to P.16 for how to connect.

➡ The start screen (left) will be displayed. If you have supported video files used in ImageMixer 3 SE on your computer, a message asking whether to import them will appear.

➡ If you connected a hard disk that stores the video files backed up directly from the camcorder, the message asking whether to add these files to the Library will be displayed. (If you click [OK], these files will be added to the Library without saving the copies in the computer.)

Music Data Disc

When editing video files with VideoBrowser, you can use music files of WAV format. If you do not have the music files of WAV format, you can import them from the Music Data Disc bundled with the camcorder.

If you want to import, insert the Music Data Disc while the screen on the left is displayed. Importing will start automatically.
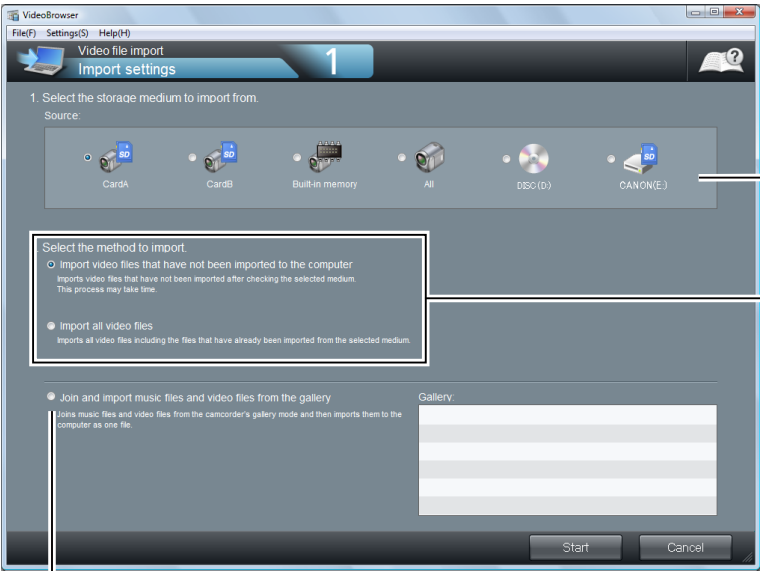
2 Click [OK].

Check the box if you do not want to display this message from the next time.

3 Click   .

STEP 1 Import video files

1 Select the medium that contains the video files you want to import.

| Icon	Content
	The built-in memory of the camcorder.
	The SD Memory Card inserted in the camcorder.
	Both the built-in memory and SD Memory Card in the camcorder.
	A card reader/writer or other devices.
	A disc inserted in the disc drive.

2 Select the method to import.

Method	Function
Import the video files which have not been saved in the computer	Imports the files which have not been imported to the computer yet.
Import all videos	Imports all files in the selected memory.

3 Decide whether to import video files in the Gallery mode combined with music files. (Optional)

You can import a single video file after combining the video files in the Gallery mode with music files.

25
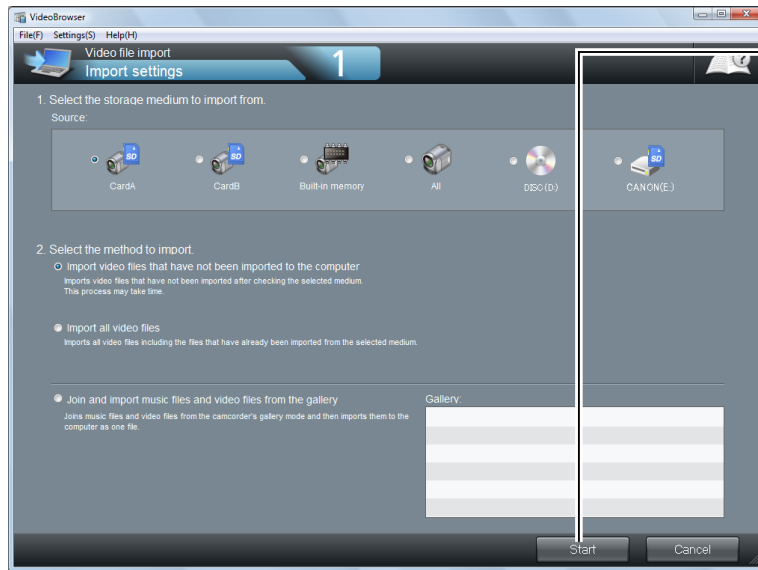
4 Click [Start].

➡ Importing will start. The Library screen P.20 will be displayed after finishing importing.

✽ Though the screen will be switched at the middle of importing, wait until the "Adding files..." message disappear. Importing may take time if the number of files is large.

Imported video files will be saved in the following location:

Windows XP
C:\Documents and Settings\(User account name)\My Documents\My Video\Import Video Data ✽ Files are saved in "My Documents" if "My Video" does not exists.
Windows Vista / Windows 7
C:\Users\(User account name)\(My) Videos\Import Video Data ✽ Files are saved in "(My) Documents" if "(My) Videos" does not exists.

📖 How to open the destination P.91

Importing video files is finished.

You can play, edit, and write imported files from the Library screen.

📖 Q&A about importing   P.86

📖 Basic operaitons in the Library screen   P.22

📖 Edit video files   P.28

📖 Write onto a disc   P.46

✎ **Checking the file location**

Select a file in the Library screen and click [i]. The file name and location will be displayed in the "Location".
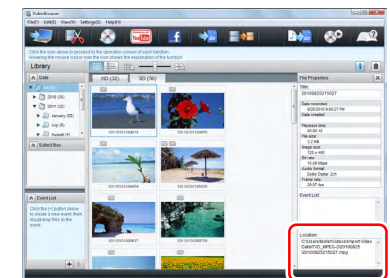
✎ **Changing the destination to save**

In the Preferences, you can change the destination to save files imported from the camcorder. P.82

Overview

You can edit the video files imported to VideoBrowser.

■ **Editing procedures** P.28

✎ Types of editing

Trimming P.36

Clip out necessary scenes from a video file.

Transition P.38

Add visual effects between video files.

Audio P.39

Add music to videos.

Text P.40

Add text onto videos. You can also configure the text size and visual effects.

Adjust volume P.43

Adjust volume of the video and music files.
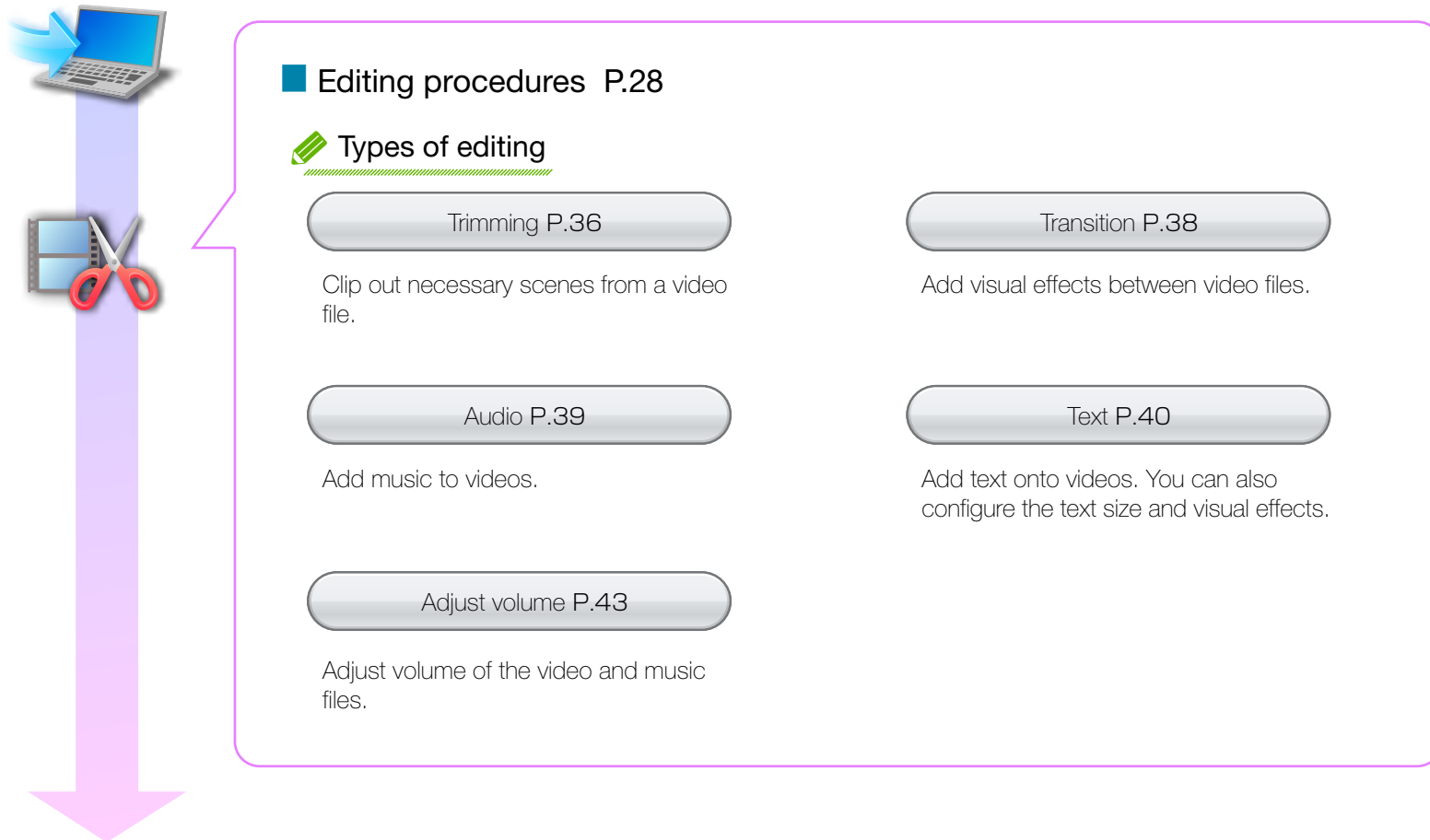
Edited files can also be converted to another format and written onto the media such as discs.

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You Tube

SD

Preparation

Following procedures are needed to edit video files.

1 Import video files to the computer.

Refer to P.24 for how to import.

➡ The screen on the left will be displayed when importing is finished.

2 Select the picture quality of the files.
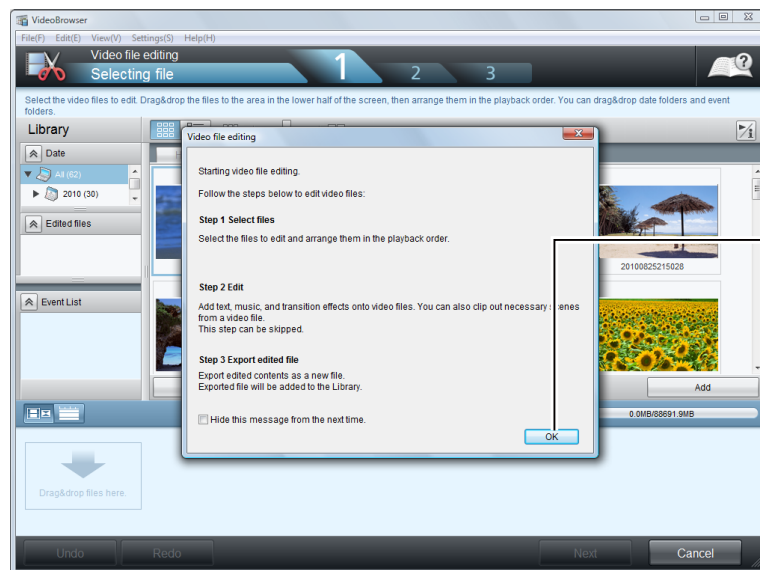
Click [HD] tab to use the files of HD picture quality. Click [SD] tab for the files of SD picture quality.

＊ You cannot edit the files of HD and SD picture quality at the same time.

3 Click ![icon] .

➡ The message explaining editing operations will be displayed.

4 Click [OK].

Check the box if you do not want to display this message from the next time.

28

STEP 1 Select files

Select the video files to edit and arrange them in the playback order.

1 Drag&drop the files to the area in the lower half of the screen.

Drag&drop the files after opening the folders in the "Date" or "Event List" column. Click [All] in the "Date" column to show all files in the Library.

- If you want to select 2 or more files at the same time, click files while holding down the [Ctrl] key on the keyboard.
- Click [Select all] to select all files in the folder that you selected in the "Date" or "Event List" column. Click [Deselect] if you want to cancel.
- You can also add files to the lower half of the screen by clicking [Add] after selecting the files.
- You can drag&drop the folders in the "Date" or "Event List" column.
- If you want to preview a file, double-click the target file.
- If you dragged&dropped a wrong file by mistake, select the file in the lower half of the screen and click .

! When adding folders in the "Date" or "Event List" column...

If files of HD and SD picture quality are in the same folder, only the files of the picture quality selected in the step 2 on P.28 are used.

! Files with Status Icons

There are operating limitations with the files with [MXP], [24F], or [5.1ch] icons. Refer to P.21 for detail.
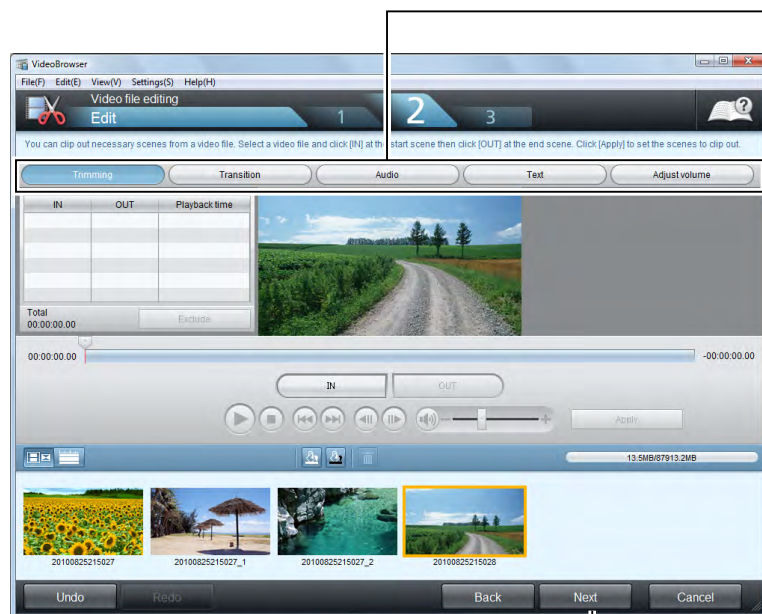
2 Drag&drop files to arrange in the playback order.

The playback begins from the left end file.

3 Click [Next].

STEP 2 Edit files

Select an editing option and start editing.

1 Click the editing option.

Following options are provided. You can perform multiple editing options to one video file.

Option	Function
Trimming	Clip out necessary scenes from a video file. 📖 P.36
Transition	Add visual effect between video files. 📖 P.38
Audio	Add music to videos. 📖 P.39
Text	Add text onto videos. You can also configure the text size and visual effects. 📖 P.40
Adjust volume	Adjust volume of the video and music files. 📖 P.43

2 Edit video files.

Perform editing that you selected in step 1. For detail operations, refer to the pages of the editing options that you selected.

3 Click [Next].

STEP 3-1 Export file

Export edited contents as a single video file. Exported file will be added to the Library.

1 Enter the title.

The title entered here will become the file name.

2 Configure the chapter. (Optional)

If you are going to write edited file onto a disc, you can configure the skip interval when playing back the disc.

1. Click [Preferences...] in the [Settings] menu.

2. Configure [Create chapters between video files].
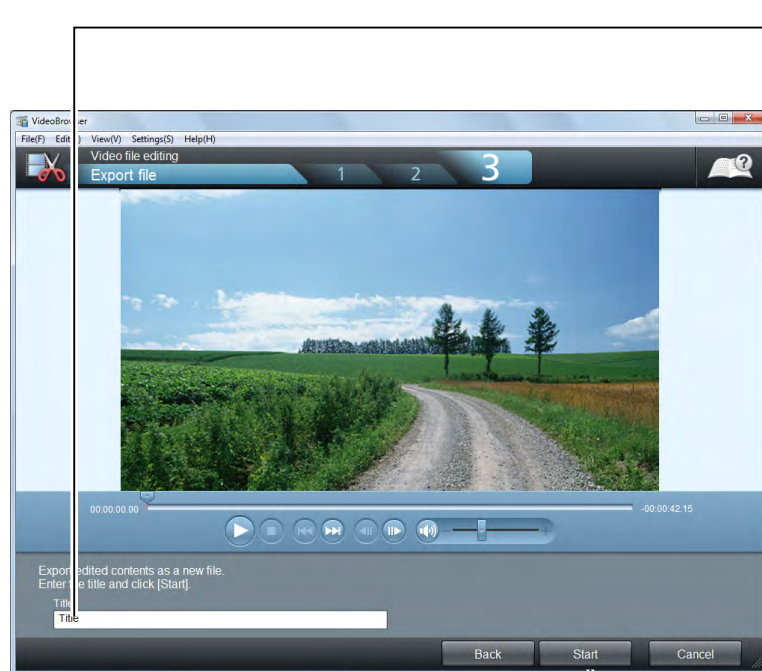
- Check the box to skip by the original files used for editing.
- Uncheck the box to skip by the file which was exported after editing.

3. Click [OK].
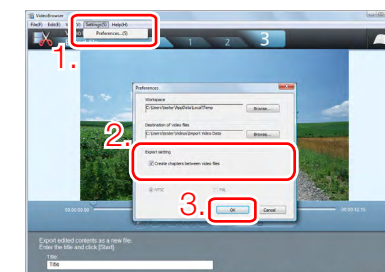
3 Click [Start].

➡ Exporting will start.

Exported file will be saved in the following location:

Windows XP
C:\Documents and Settings\(User account name)\My Documents\My Video \Import Video Data\Edit
＊ Files are saved in "My Documents" if "My Video" does not exists.
Windows Vista / Windows 7
C:\Users\(User account name)\(My) Video\Import Video Data\Edit
＊ Files are saved in "(My) Documents" if "(My) Videos" does not exists.

📖 Q&A about editing P.87

📖 How to open the destination P.91

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STEP 3-2 Save editing operation

After finishing editing, the message asking whether to save the editing operation appears. You can also save the editing operation before finishing editing.
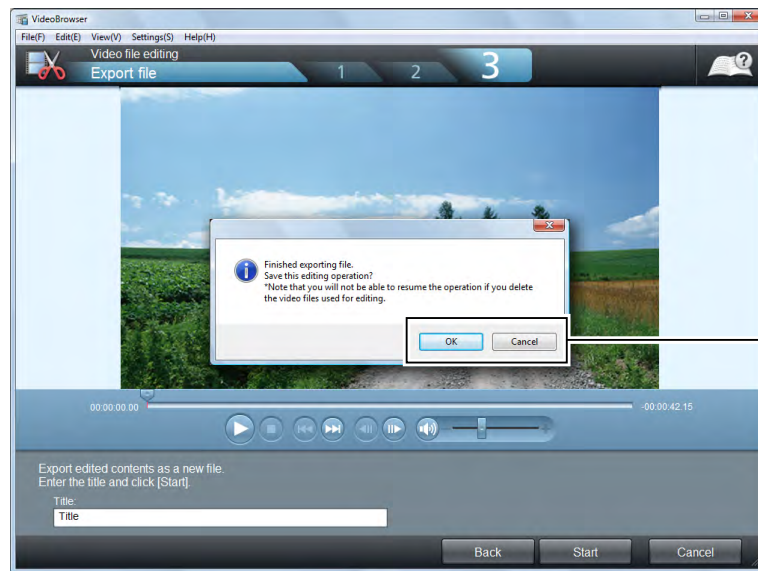
1 Decide whether to save editing operation.

If you select [OK], you can save a file that records the editing operation. You can export same content again or resume editing by opening the file.

* If you select [Cancel], editing will be finished without saving the editing operation. Following procedure is not needed.

🖍 **Saving the editing operation before finishing editing**

You can save the editing operation before exporting the edited result.

Click [Save editing operation...] in the [File] menu and save the operation in the window displayed.
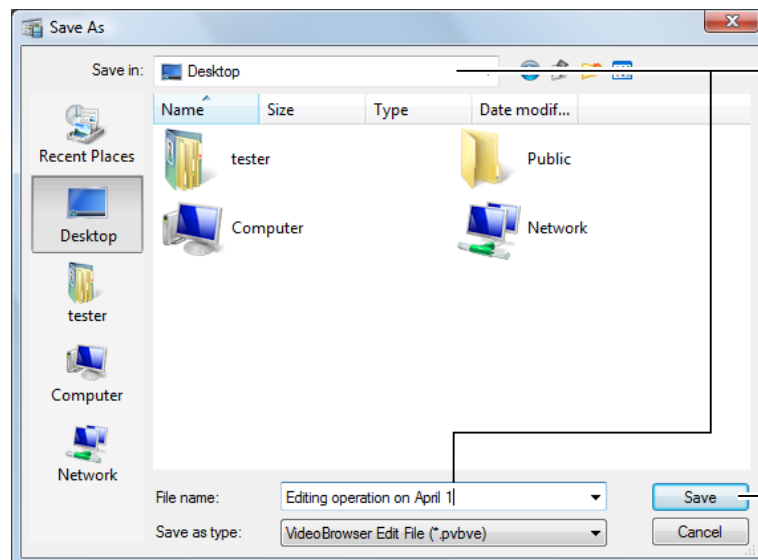
2 Specify the destination and enter the file name.

3 Click [Save].

The editing operation will be saved as a file with the extension ".pvbve".

🖍 **How to read the editing operation?**

Click ✂ in the Library screen and select [Read editing operation...] in the [File] menu then read the saved file.

Screen components
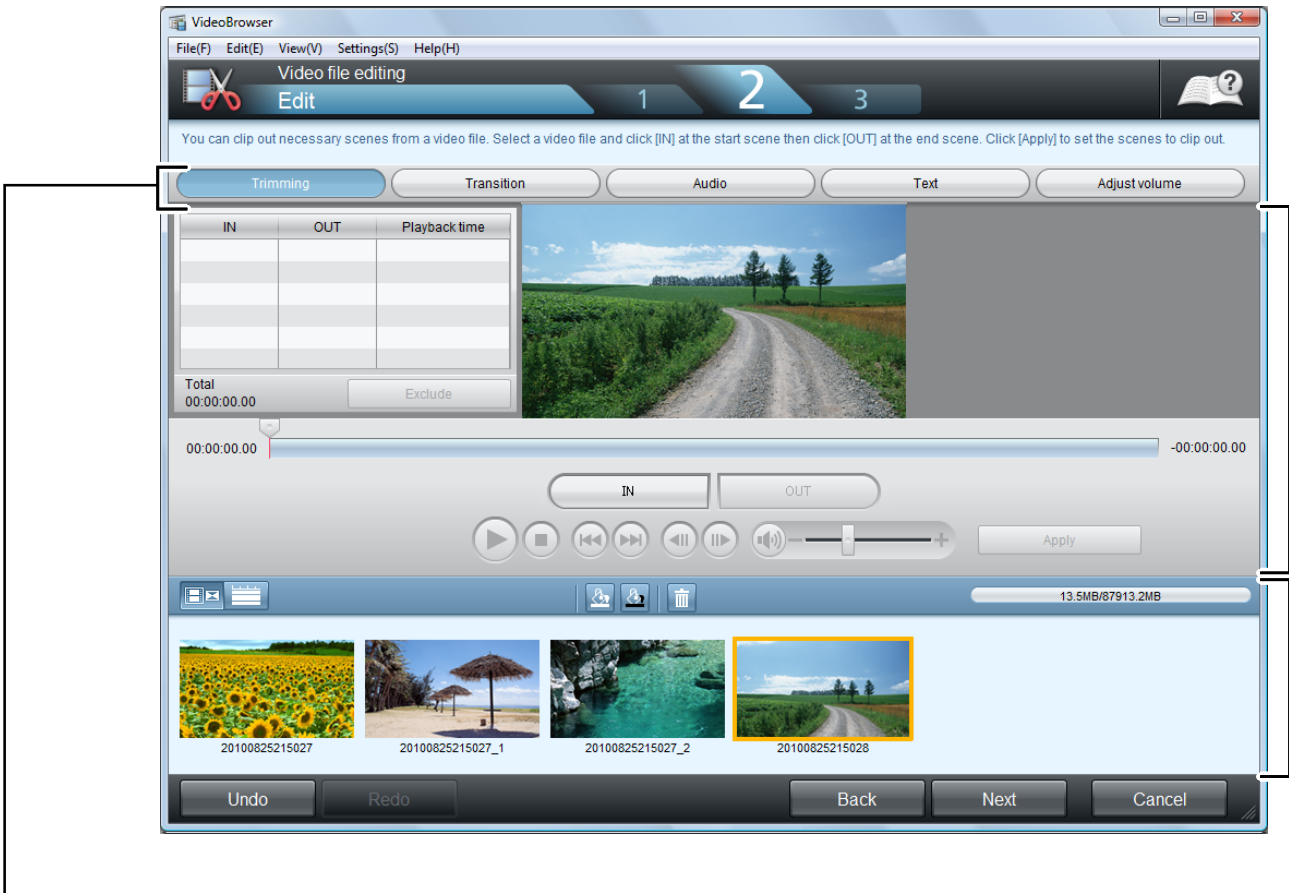
Working panel

The panel to perform detailed editing. The contents of the panel vary depending on the editing options.

Editing area

Editing files are placed here. You can change the view of this area. Also, excluding files from this area is possible.

Editing options

Select the type of editing. Following options are provided.

Trimming	Clip out necessary scenes from a video file.	📖 P.36
Transition	Add visual effect between video files.	📖 P.38
Audio	Add music to videos.	📖 P.39

Text	Add text onto videos. You can also configure the text size and visual effects.	📖 P.40
Adjust volume	Adjust volume of the video and music files.	📖 P.43

Operations in editing area

Switch view

Change the view of the editing area.

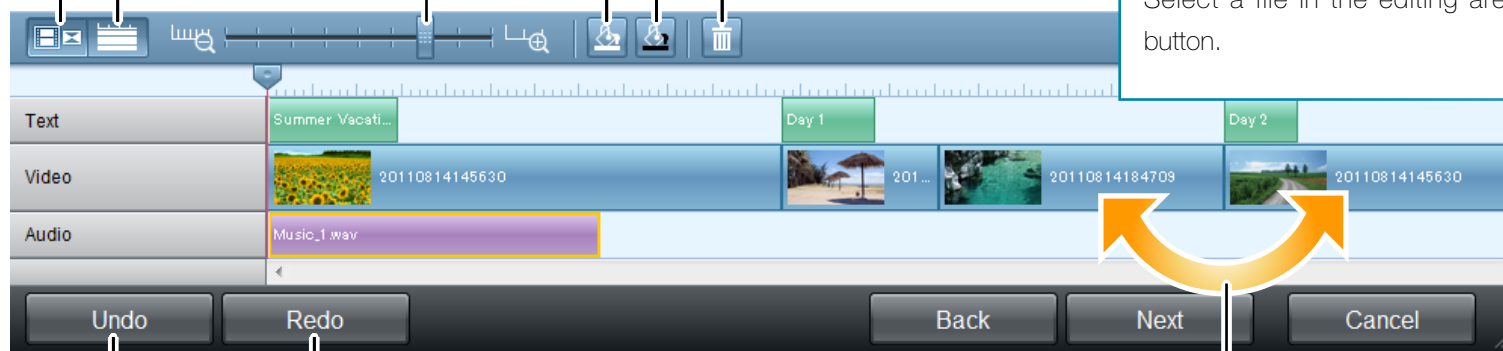|	
Storyboard	Only the video files and transitions are displayed. This view is useful to arrange the playback order in the early stage of editing. ✱ Available in [Trimming] and [Transition] only.
Timeline	Video files, music files, and text are shown as lines. This view is useful for editing detail parts.

Magnify/demagnify display size

This slider appears in Timeline display. Drag to right to magnify, left to demaginify.

Add white/black screen

Add 10-second white/black screen to the editing area. These screens can be used as a filling screen at the beginning and ending, or a background to display text.

Exclude file

Select a file in the editing area and click this button.

Text — Summer Vacati... — Day 1 — Day 2

Video — 20110814145630 — 201... — 20110814184709 — 20110814145630

Audio — Music_1.wav

Undo   Redo   Back   Next   Cancel

Undo/redo the operation

Undo	Cancel the operation performed immediately before. This button is disabled when editing have not been performed.
Redo	Restore the operation that you have canceled. This button is disabled when operation have not been canceled.

Change the playback order

Drag&drop the file to the position to playback. You can change the playback order in both Storyboard and Timeline view.

In Timeline view, you can change the display point of text and audio, and also the display order.

Operations in preview screen

Change playback position

Drag the slider to the position to display. The time on the both ends indicates playback time: the left shows the time elapsed, and the right shows the time remaining. Clicking the remaining time switches to total playback time.

00:00:17.19   −00:00:05.18
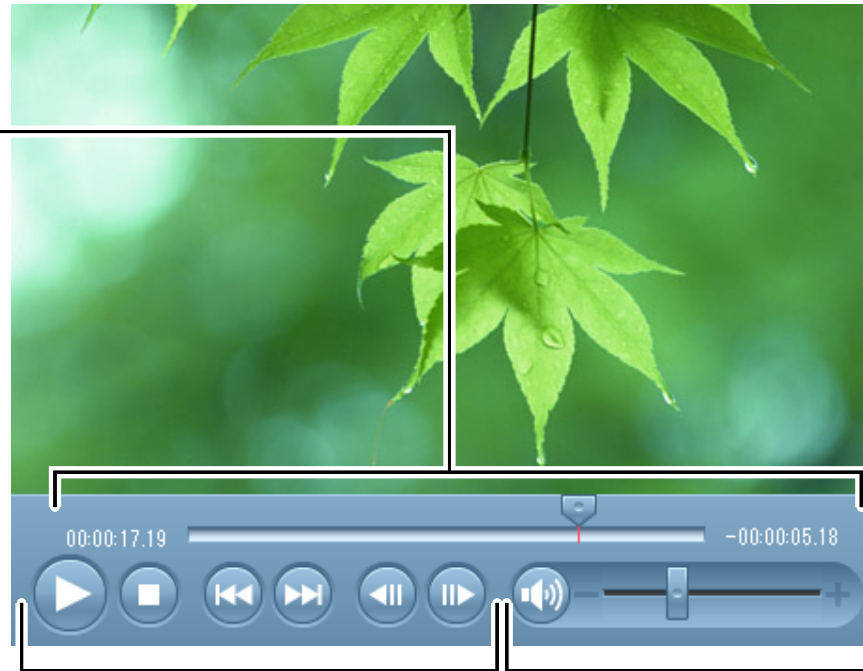
Adjust volume

Drag the slider. Cliking 🔊 mutes audio. Click again to unmute.

Preview

This panel is available when selecting [Transition], [Audio], and [Text]. Some buttons are available when selecting [Adjust volume].

▶	Start playback from the current slider position. During playback, the button will appear as pause button.	▶▶❙	Jump to the top of the next video file in the Storyboard view. In the Timeline view, Go to the nearest video file, music file, or text.
■	Stop playback and return to the top of the editing area.	◀❙❙	Move the playback position one frame back.
❙◀◀	Jump to the top of the previous video file in the Storyboard view. In the Timeline view, back to the nearest video file, music file, or text.	❙❙▶	Move the playback position one frame forward.

✱ In the preview screen, the playback may not be performed smoothly or the text may be distorted, however these are not reflected to the edited content.

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Trimming

You can clip out necessary scenes from a video file.

＊ The following explains the operations after clicking [Trimming] in the step 1 on P.30. If you wish to edit from the beginning, start from P.28 .
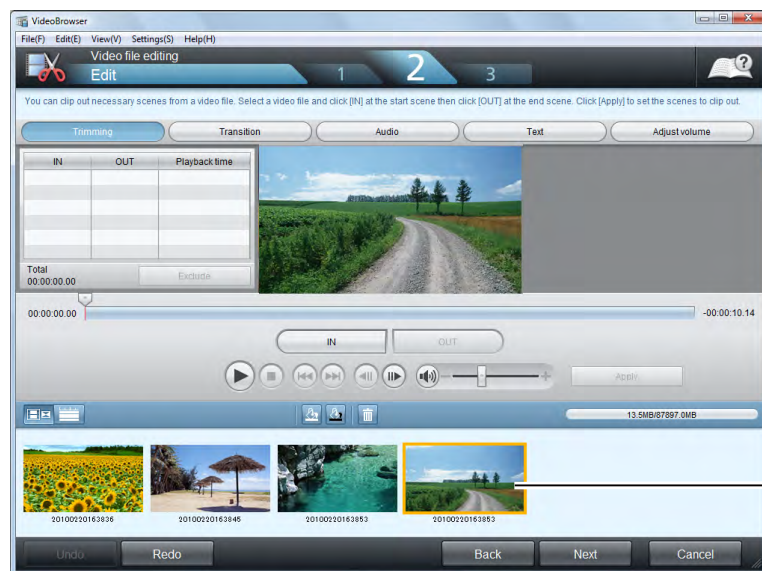
1 Click a video file.
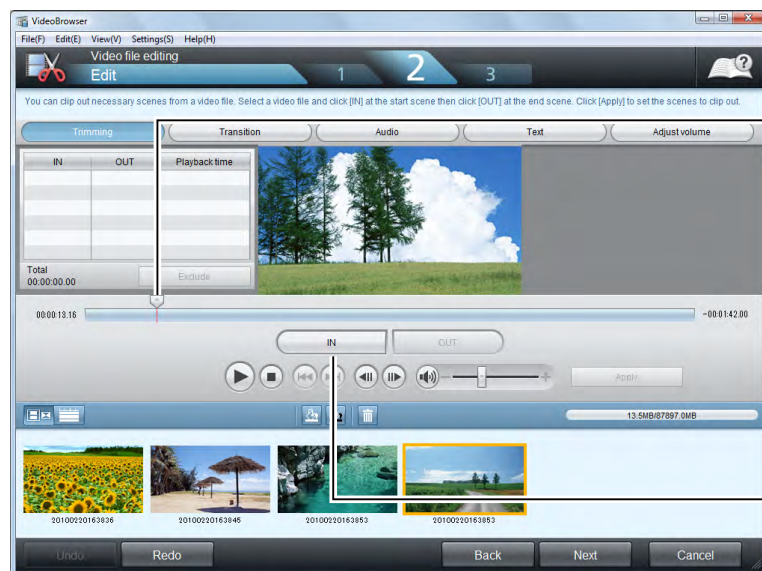
2 Drag the slider to the beginning of the scene to clip out.

You can move one frame forward/back with ◀❙❙ / ❙❙▶ .

3 Click [IN].

Trimming
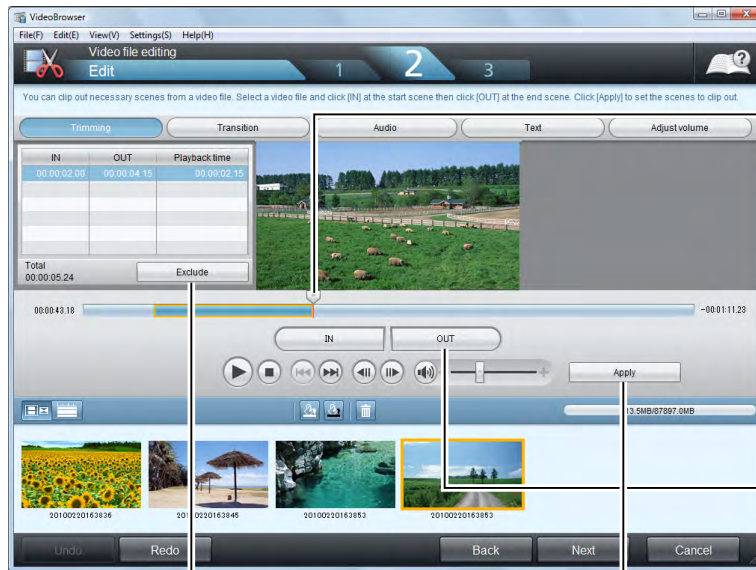
4 Drag the slider to the ending of the scene to clip out.

You can move one frame forward/back with ◀‖ / ‖▶ .

5 Click [OUT].

  * [OUT] is disabled when the specified scene is shorter than 0.5 second.

6 Repeat step 2 to 5 as necessary.

  * If the specified scene overlaps with other specified scenes, the newer scene is applied.

✎ Canceling the specified scene

Select the scene and click [Exclude].

7 Click [Apply].

➡ The specified scenes will be set.

📖 Back to "STEP 2 Edit files" P.30.

Transition

You can add visual effect between video files.

＊ The following explains the operations after clicking [Transition] in the step 1 on P.30. If you wish to edit from the beginning, start from P.28 .


1 Drag&drop the effect to ⬇ in the editing area.

- The preview will be played back when you select an effect.
- In the Timeline view, drag&drop the effect between the video files.

2 Enter the display time for the transition effect.

You can enter between 0.5 to 10 seconds.

3 Click [Apply].

4 Click ▶ and check the result.

- If you want to alter the settings, repeat step 1 to 3.
- The preview may not be played back smoothly depending on your computer's configuration.

📖 Back to "STEP 2 Edit files" P.30.

Audio

You can add music to videos.

∗ The following explains the operations after clicking [Audio] in the step 1 on P.30. If you wish to edit from the beginning, start from P.28 .
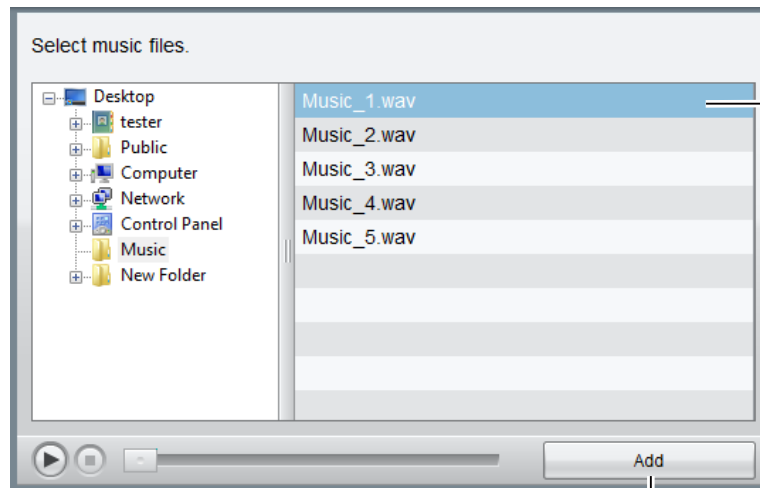
1 Select music files.

- Select the destination in the left column, and specify the files in the panel on the right.
- You can preview a file by selecting a file and click ▶ .

⚠ **If no music files are displayed...**

If no music files are displayed even after selecting the destination that contains music files, the music files may not be available with VideoBrowser. Use WAVE (.wav) files in linear PCM which is longer than 0.5 second.

2 Click [Add].

➡ Music files will be added to the [Audio] line in the editing area.

3 Drag the music file to the position to start.

4 Click ▶ and check the result.

📖 Back to "STEP 2 Edit files" P.30.

∗ The screen switches to the Timeline view. The Storyboard view is not available.

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Text

You can add text onto videos.

∗ The following explains the operations after clicking [Text] in the step 1 on P.30. If you wish to edit from the beginning, start from P.28 .
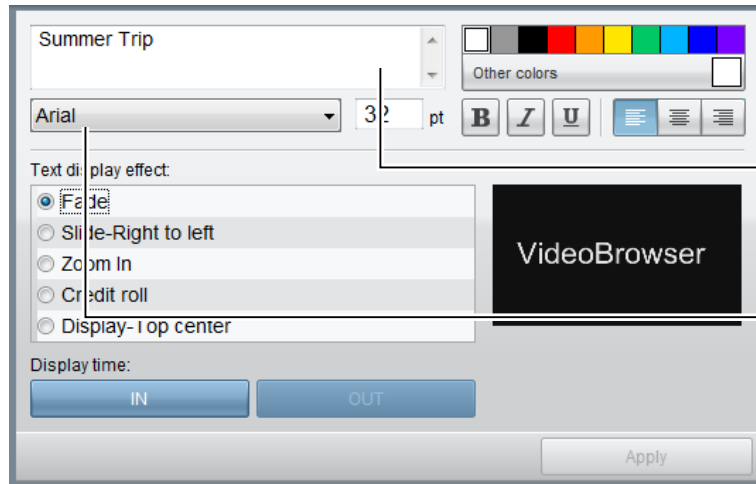
1 Enter text.

2 Select text type.

3 Enter text size.

You can enter between 8 pt to 100 pt.

4 Select text color.

Click [Other colors] if you want to select a favorite color from the color setting panel.

5 Select text style and layout as necessary.
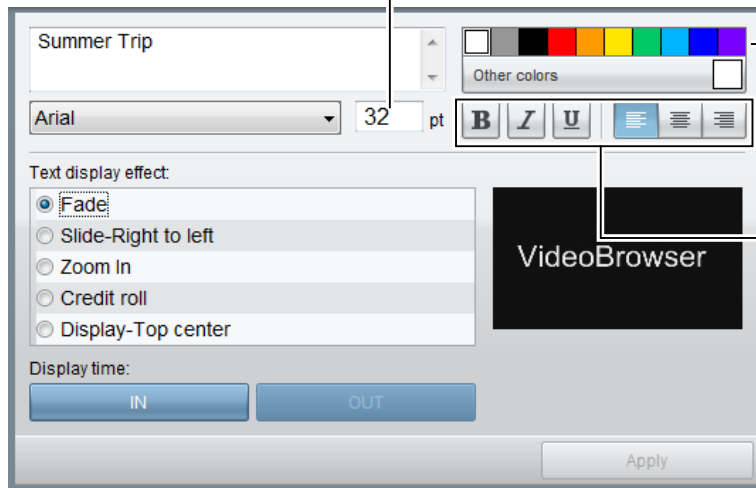
	Bold		Align left
	Italic		Align center
	Underline		Align right
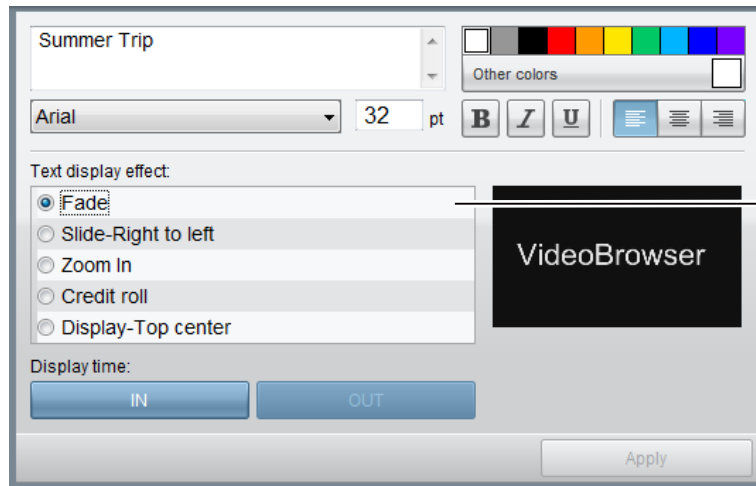
6 Select a display effect for the text.

The preview will be played back when you select an effect.

∗ The letters "VideoBrowser" in the preview screen is a sample. The text that you entered will be displayed in the edited video file.

7 Drag the slider to the position to start displaying the text.

8 Click [IN].

∗ The screen switches to the Timeline view. The Storyboard view is not available.
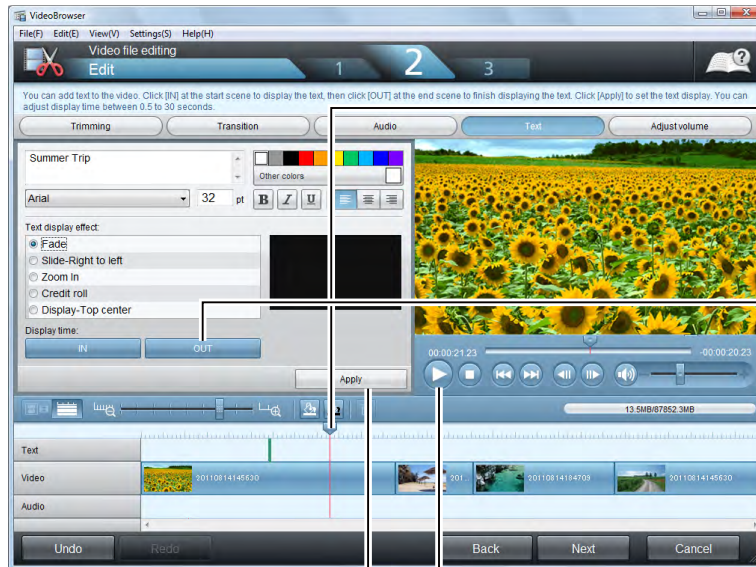
9 Drag the slider to the position to finish displaying the text.

Configure between 0.5 to 30 seconds from the point you set in step 8.

10 Click [OUT].

✎ **Setting the display time while playing back**

Click ▶ and perform the operations in step 8 and 10.

11 Click [Apply].

➡ The text will be added to the [Text] line in the editing area.

✽ If the text overlaps with other texts already applied, the newer text is applied.

12 Click ▶ and check the result.

Note that the entered letters may be garbled if you entered 2-byte characters in step 1 and selected the text type for single-byte characters in step 2.

• You can move the display position by dragging the text in the editing area.

• If you want to increase/decrease the display time, bring the mouse cursor to the edge of the text in the editing area, and drag it while ↔ icon is displayed.

📖 Back to "STEP 2 Edit files" P.30.

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Adjust volume

You can adjust volume of the video and music files.

∗ The following explains the operations after clicking [Adjust volume] in the step 1 on P.30. If you wish to edit from the beginning, start from P.28 .

∗ The screen switches to the Timeline view. The Storyboard view is not available.
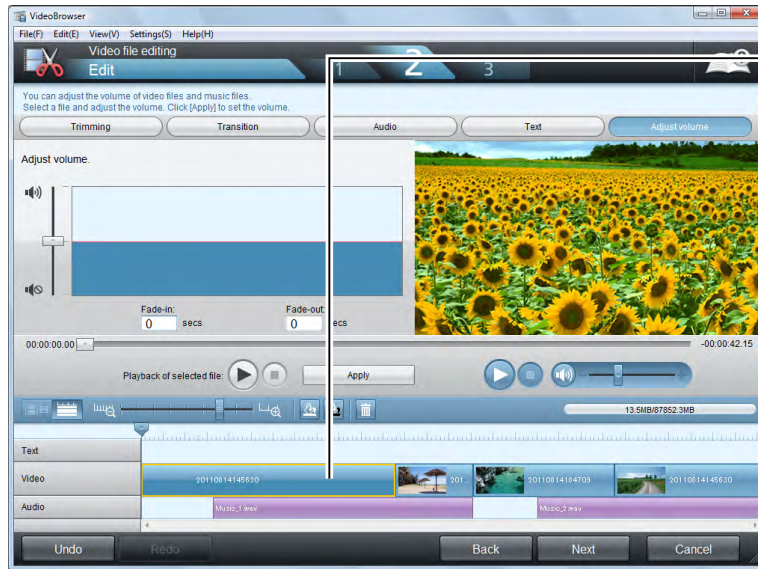
1 Click a video or music file.

Select a video or music file depending on your purpose.

- If you want to adjust the volume of the video that you recorded with the camcorder, select a video file in the [Video] line.
- If you want to adjust the volume of the background music, select a music file in the [Audio] line.
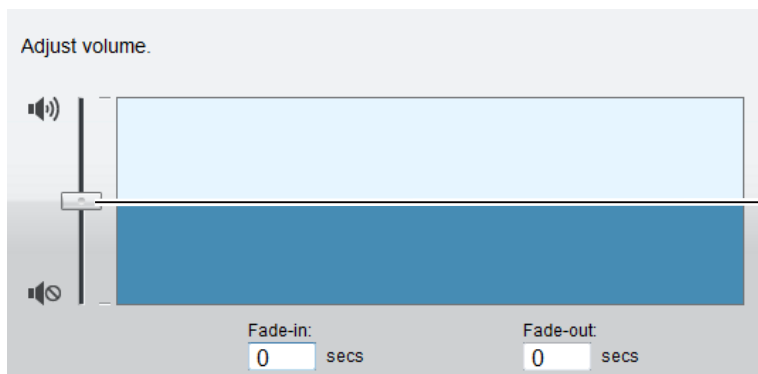
2 Adjust volume.

Adjust the volume with the vertical slider. The center line indicates the original volume. Dragging the slider to the lower end mutes the volume.

Adjust volume
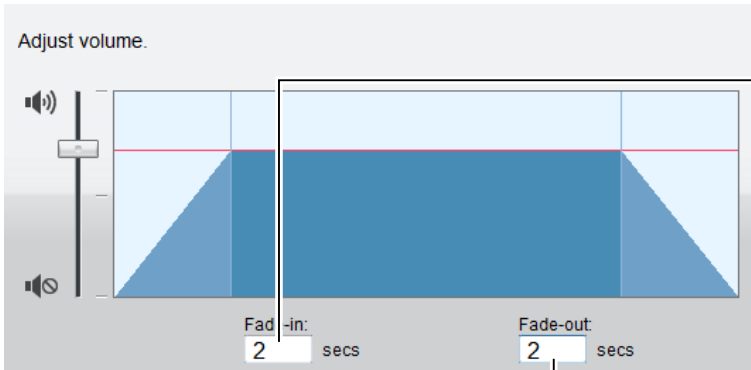
3 Enter Fade-in time. (Optional)

"Fade-in" is a sound effect to make the volume become louder gradually from silent. You can specify the time to become the volume that you set in step 2.

4 Enter Fade-out time. (Optional)

"Fade-out" is a sound effect to make the volume become softer gradually and silent at the end. You can specify the time to become silent from the volume that you set in step 2.
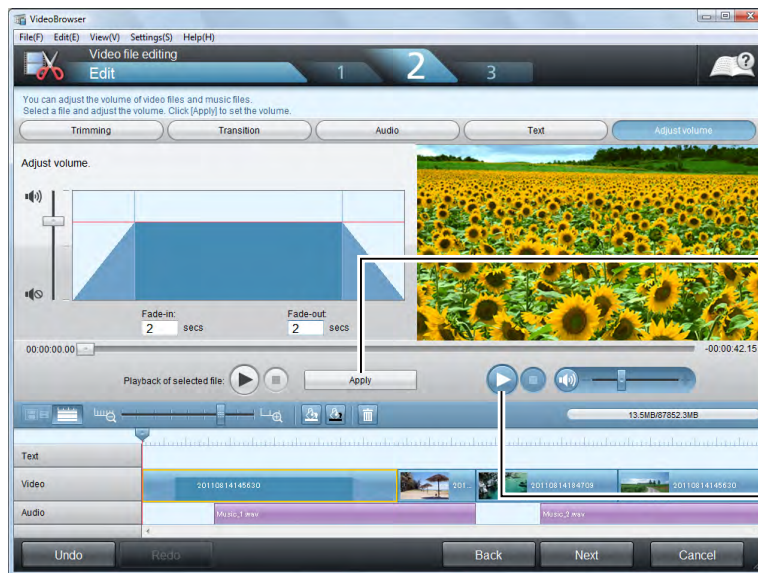
5 Click [Apply].

➡ The adjusted volume will be set.

6 Click and check the result.

- If you want to alter the settings, repeat step 2 to 5.
- Click to check the volume of the file that you adjusted.

📖 Back to "STEP 2 Edit files" P.30.

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Overview

You can write video files onto a DVD or BD.

Before writing, you can add effects to the video files by editing.

✱ Select the picture quality of the video file beforehand.

1 Select the video files to write and arrange them in playback order.

2 Select the disc type that suits your purpose.   P.48 Usable disc type

3 Configure the scene setting.

4 Configure the menu screen.

5 Select the writing drive and set a disc to start writing.

When writing is finished, the message asking whether to the writing operation will appear. Saving the writing operation will help you to write a disc of the same contents quickly.

Created disc can be played back on VideoBrowser and other players.

Preparation

Following procedures are needed to write a disc.

1 Import video files to the computer.

Refer to P.24 for how to import.

➡ The screen on the left will be displayed when importing is finished.

2 Select the picture quality of the files.

Click [HD] tab to use the files of HD picture quality. Click [SD] tab for the files of SD picture quality.

⚠ **The picture quality of the disc**

＊ The picture quality of the disc is decided by the quality selected in this step. You cannot write the files of HD and SD picture quality at the same time.
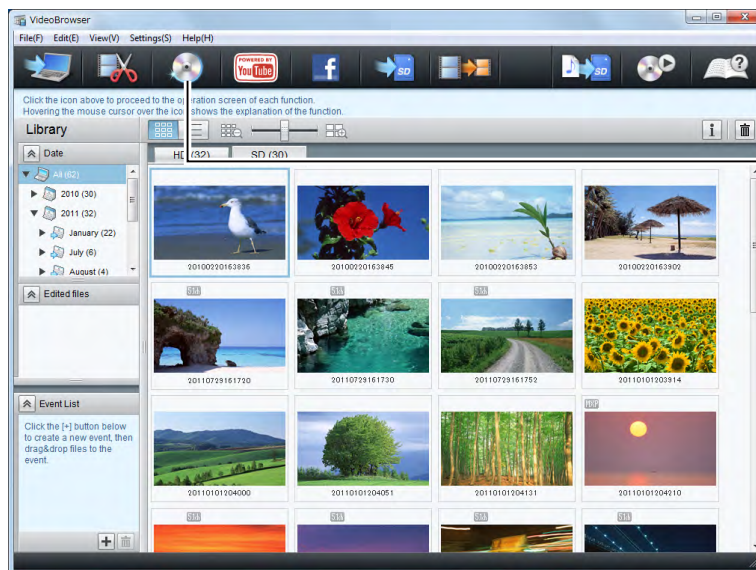
3 Click .

⚠ **When the disc drive is being used...**

The disc drive being used cannot be used for writing. Stop the operation and eject a disc if the writing drive is used by VideoBrowser's disc playback function or other software functions.

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STEP 1 Select files

Select the video files to write and arrange them in the playback order.

1 Drag&drop the files to the area in the lower half of the screen.

Drag&drop the files after opening the folders in the "Date" or "Event List" column. Click [All] in the "Date" column to show all files in the Library.

- If you want to select 2 or more files at the same time, click files while holding down the [Ctrl] key on the keyboard.
- Click [Select all] to select all files in the folder that you selected in the "Date" or "Event List" column. Click [Deselect] if you want to cancel.
- You can also add files to the lower half of the screen by clicking [Add] after selecting the files.
- You can drag&drop the folders in the "Date" or "Event List" column. Note that only the files of the picture quality selected in step 2 on P.46 will be written.
- If you want to preview a file, double-click the target file.
- If you dragged&dropped a wrong file by mistake, select the file in the lower half of the screen and click [Exclude].

⊘ Files with Status Icons

There are operating limitations with the files with [MXP], [24F], or [5.1ch] icons. Refer to P.21 for detail.

2 Drag&drop files to arrange in the playback order.

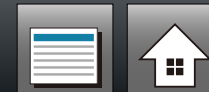The playback begins from the left end file.

3 Click [Next].

STEP 2 Select disc type

Select the disc type that suits your purpose.

*1   Writing on 8 cm disc is not supported.

*2   ● Writing may take time due to file conversion.
      ● The video files of SD picture quality (standard quality) will be written as is.
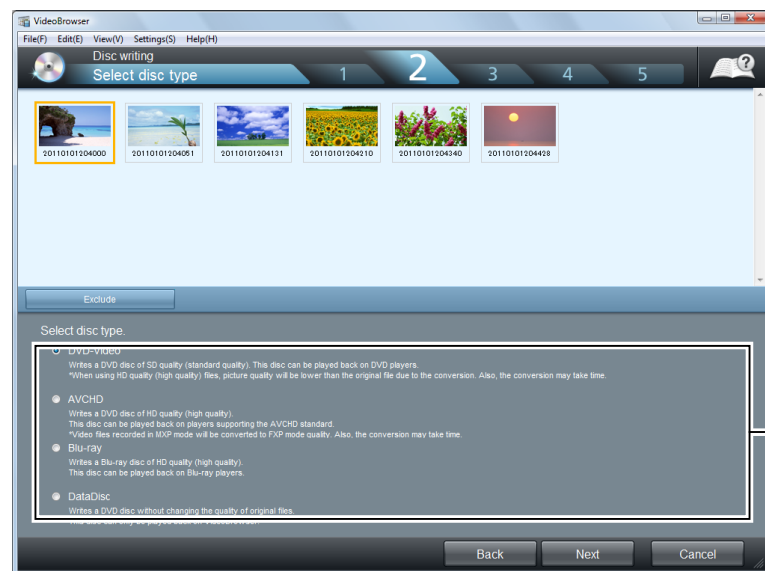
1 Select the disc type.

∗ If you select the [SD] tab in the step 2 on P.46, the disc type will be confined to "DVD-Video".

Disc type	Purpose	Usable discs(*1)
DVD-Video (*2)	Picture quality will be lower than the original, however you can play back on most DVD players. ■ Play back on a DVD player ■ Play back on a Blu-ray player	DVD-R DVD-R DL DVD-RW
AVCHD	Write a disc keeping the original picture quality recorded by the camcorder. Requires a player supporting the playback of high-definition picture quality. ■ Play back on a player supporting AVCHD standard ■ Play back on a Blu-ray player ■ Play back on VideoBrowser	DVD-R DVD-R DL DVD-RW
Blu-ray	Write a disc keeping the original picture quality recorded by the camcorder. Requires a computer's disc drive supporting Blu-ray disc writing. ■ Play back on a Blu-ray player ■ Play back on VideoBrowser	BD-R BD-R DL BD-RE BD-RE DL
DataDisc	Write a disc keeping the original picture quality recorded by the camcorder. Created disc can only be played back with VideoBrowser. Choose this disc type when writing video files recorded in MXP mode as is onto a DVD disc. ■ Make a disc for data backup ■ Play back on VideoBrowser	DVD-R DVD-R DL DVD-RW

2 Click [Next].

> ∗ If you selected "DataDisc", the screen of STEP 4 will be displayed. Follow the procedures on P.51. You can write up to 99 video files on a "DataDisc".
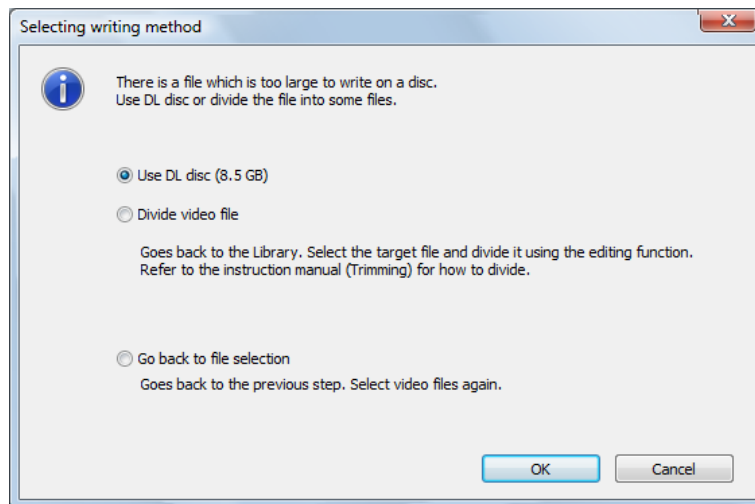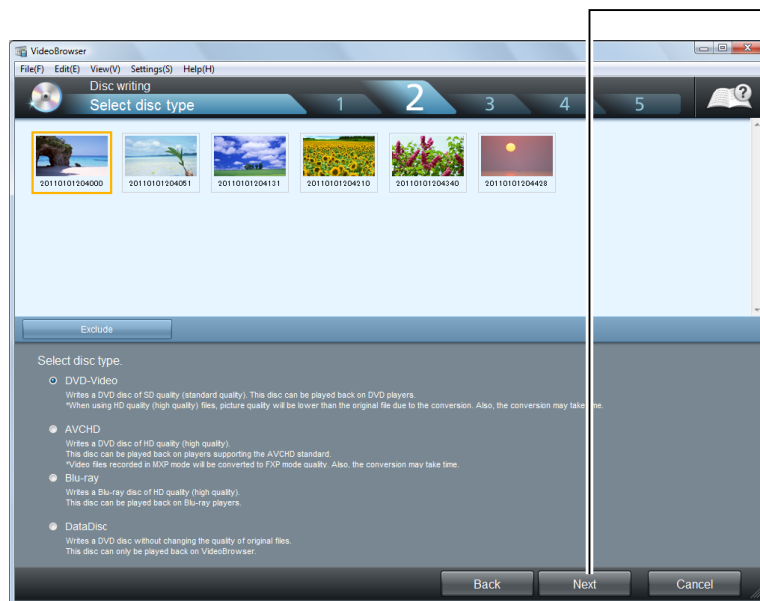
⚠ **If a file is too large for disc capacity...**

If the size of a video file exceeds the disc capacity, the message on the left will appear.

Option	Function
Use DL disc	You can write on a DL disc. Insert a DL disc. ∗ This option is available when the file size is less than 8.5 GB.
Divide video file	Back to the Library. Divide the file by the trimming function P.36 in editing screen so that the divided files can be written on a disc.
Go back to file selection	Back to STEP 1 and select files again. You cannot select the file exceeding disc capacity.

STEP 3 Scene settings

A "scene" is a sequence of videos written on a disc. The original video files can be put into one "scene" when they are written on a disc.

📖 More about scenes and chapters   P.57
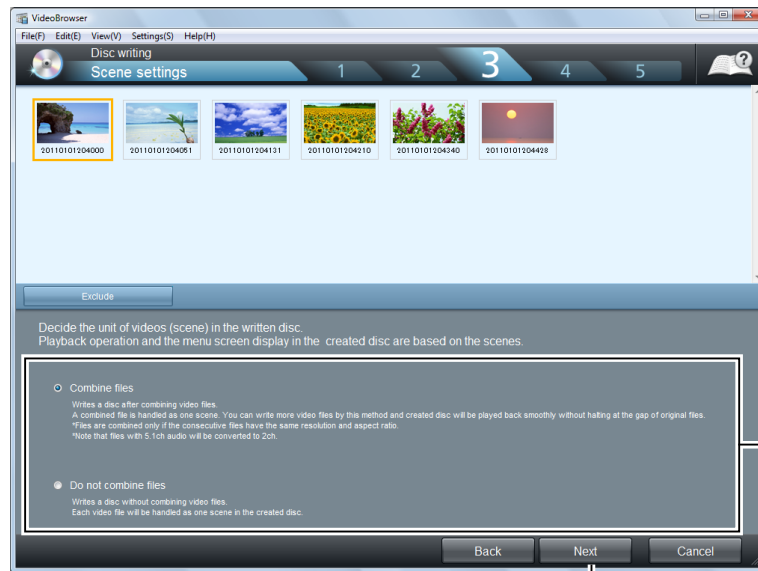
1 Select whether to combine video files.

Option	Function
Combine files	In the playback order, the contiguous video files with same resolution and aspect ratio are combined. Choose this option if you want to playback the disc smoothly. However, the thumbnails on the menu screen P.55 may not correspond with the original video files.
Do not combine files	One video file is handled as one scene when written on a disc. Choose this option if you want to match the thumbnails of the menu screen P.55 to the original video files. However, the playback will pause briefly at the point between the original files. ＊ You cannot choose this option when writing over 100 files on "DVD-Video" or "AVCHD" disc. (See below)

Number of scenes that can be written on a disc

Disc type	DVD-Video	AVCHD	Blu-ray
Combine files	99	500	500
Do not combine files	99	99	99

2 Click [Next].

STEP 4 Menu screen settings

The menu screen is the screen that appears first when playing back the written disc.

1 Enter the title of the disc.

- You cannot go to the next step until you enter the title.
- You can enter up to 30 characters for the title. However, too long title will be omitted as "..." on the menu screen. In this case, shorten the title until "..." is not displayed.

2 Select menu type.

3 Click [Next].

Specify the scenes on the menu screen   P.88

STEP 5-1 Select drive

Select the drive to write and insert a disc.

1 Select the drive to write.

Click the box to display a list of selectable drives.

2 Insert any disc listed here.

Use a disc that can be used with the disc type you selected in STEP 2.

∗ Writing on 8 cm disc is not supported.

∗ When using a rewritable disc, insert the disc without erasing the data in it. VideoBrowser will erase the data before writing.

Q&A about disc writing P.87

3 Click [Start].

➡ Disc writing will start.

∗ A confirmation message will appear when using a used rewritable disc. Click [OK] to start writing.

∗ When 2 or more discs are needed, a message to replace with a new disc will appear. Replace the disc and click [OK].

STEP 5-2 Save writing operation

After finishing writing, the message asking whether to save the writing operation appears. You can also save the writing operation before writing.
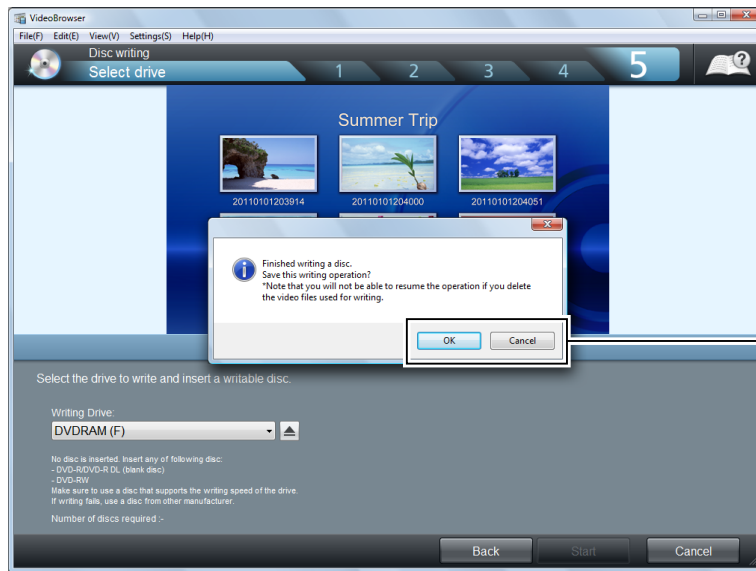
1 Decide whether to save the writing operation.

If you select [OK], you can save a file that records the video files, playback order, and the disc type used for writing.

∗ If you select [Cancel], writing will be finished without saving the writing operation. Following procedure is not needed.

✎ **Saving the writing operation before finishing writing**

You can save the writing operation before starting writing onto a disc.

Click [Save writing operation...] in the [File] menu and save the operation in the window displayed.
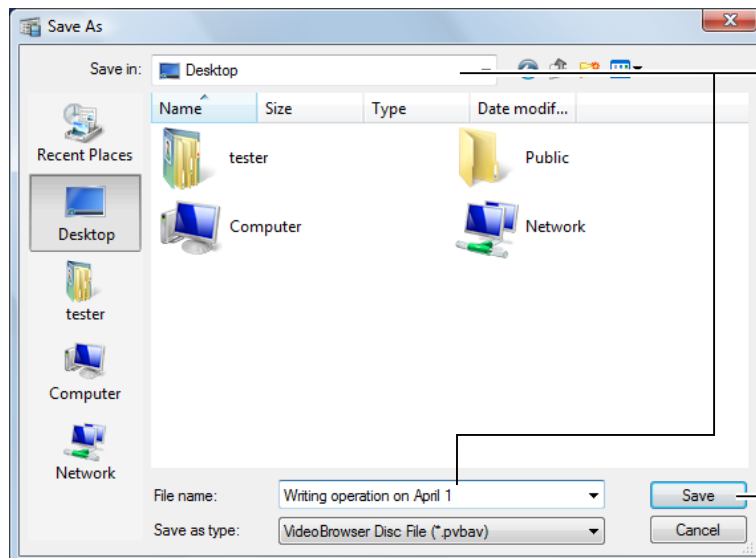
2 Specify the destination and enter the file name.

3 Click [Save].

The writing operation will be saved as a file with the extension ".pvbav".

✎ **How to read the editing operation?**

Click in the Library screen and select [Read writing operation...] in the [File] menu then read the saved file.

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Play back discs created with VideoBrowser

If you chose "AVCHD", "Blu-ray", or "DataDisc" in STEP 2 on P.48 and wrote a disc, you can play back those discs on VideoBrowser.

1 Click [icon] .

2 Select the drive to play.

3 Insert a disc to the computer's disc drive.

➡ [Reading information...] dialog box will appear at first, and the menu screen will be displayed later.

∗ It may take time to read the disc information. For example, when reading a disc with approximately 90 scenes, this process may take about 2 minutes. (This estimation is based on the computer configuration on P.9)

✎ **Play back discs created with ImageMixer 3 SE**

You can also playback discs created with ImageMixer 3 SE on VideoBrowser.
- ImageMixer 3 SE
- ImageMixer 3 SE Ver.3
- ImageMixer 3 SE Ver.5
- ImageMixer 3 SE Ver.6
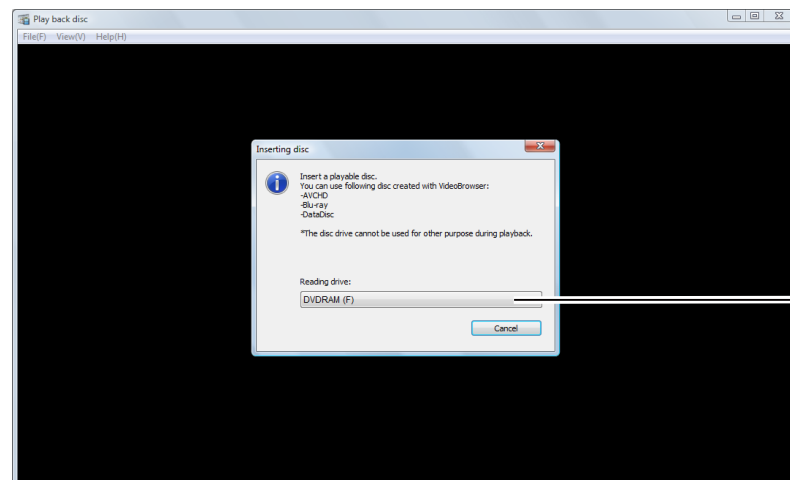
Menu screen components

The following screen will be displayed first when you play back a disc created with VideoBrowser.

Title

The title you entered in STEP 4 of disc writing P.51 appears here.

Scene thumbnail

The top image of the scene is displayed. The scene is created based on the setting in STEP 3 of disc writing P.50.

Refer to P.88 if you want specify the thumbnail images.

To the previous page

Turn to the previous page when displaying page 2 or later.

Page number

Displays the number of the current menu screen out of the total number of menu screens.

Scene name

The name of the scene. The scene is created based on the setting in STEP 3 of disc writing P.50. If you combined the files, the name of the original file that comes first in the scene is displayed.

If you changed the file names in the Library screen, the changed names are also reflected to the scene names.

P.60

To the next page

Turn to the next page when there are 7 or more scenes in the disc.

Control panel

This panel is used for controlling playback. See next page for details.

Operations in playback

Use the control panel for playback operations.

Check playback status

Current playback status and elapsed time are displayed here.

Back to menu screen

Click this button to return to the menu screen during playback.

View in full screen

Click this button to display in full screen. Double-click the screen again to return to the original screen size.

Change playback position

Drag the slider to the position to display.

Operate menu screen

Move and decide the article in the menu screen with this button.

Operations in full screen

You can operate with the following keys on the keyboard.

Key	Function
Esc	Return to original screen size.
Space	Play back/pause
←	Play back previous video file.
→	Play back next video file.

View

▶	Start/pause playback. During playback, the button will appear as pause button.
■	Stop playback.
◀◀	Reverse the video at a higher speed. Every time you click this button, the speed changes x10, x30, x60, and x5.
▶▶	Advance the video at a higher speed. Every time you click this button, the speed changes x10, x30, x60, and x5.
◀◀|	Jump to the previous chapter.
|▶▶	Jump to the next chapter.

Adjust volume

Drag the slider.

Clicking 🔊 mutes audio. Click again to unmute.

Eject disc

Click this button to eject the disc.

Change display size

You can change display size by following methods:
- Select the display size in the [View] menu.
- Drag the window edge.

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Notes for playback

⚠ **Playback pauses briefly between the original video files**

If you did not combine files in STEP 3 on P.50, playback may pause briefly at the points between original video files. Even if you combine the files, this will happen at the joining points of the scenes. If you want to play back without brief pause, export a video file after combining multiple video files in the editing screen.

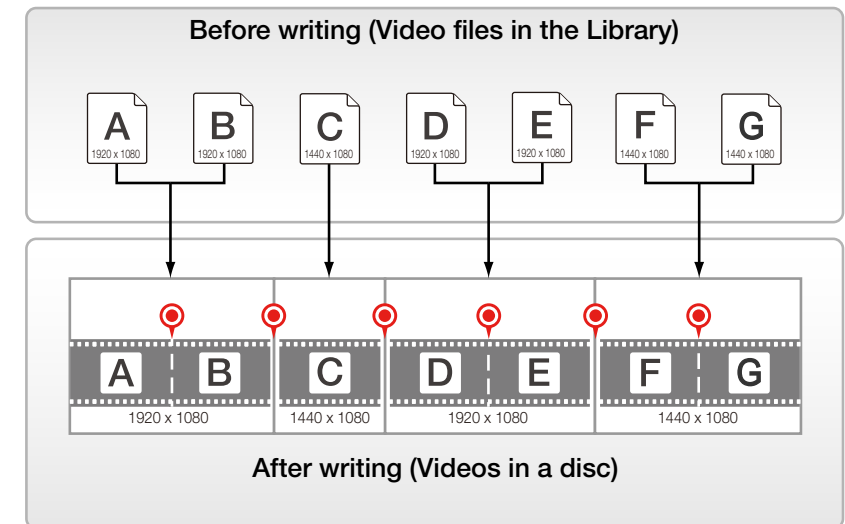⚠ **Screen size varies depending on the recording mode**

When playing back videos recorded in XP+ mode/SP mode/LP mode (1440 x 1080 pixels) in [Actual size] in the [View] menu, the size of the screen will be 1920 x 1080 pixels.

⚠ **Certain operation may stop playback**

While playing back, do not press the key combination Ctrl-Alt-Delete. Otherwise, the playback will be stopped and the program will return to the menu screen. To continue, start the playback procedure from the beginning.

✏ **More about scenes and chapters**

When you write a disc, the number of the video unit (scene) will change depending on the resolution, playback order, and file combination settings. The following illustration describes before and after writing seven video files (A to G) onto a disc while the files are set to be combined.

Before writing (Video files in the Library)

A	B	C	D	E	F	G
1920 x 1080	1920 x 1080	1440 x 1080	1920 x 1080	1920 x 1080	1440 x 1080	1440 x 1080

A	B	C	D	E	F	G
1920 x 1080		1440 x 1080	1920 x 1080		1440 x 1080	

After writing (Videos in a disc)

⦿ indicates chapters.

- You can jumps by chapters with ⏮ / ⏭ when playing back a disc.
- The chapters of edited files vary depending on the setting in Preferences when editing (step 2 on P.31).

You can change the destination to save the video files imported from the camcorder.
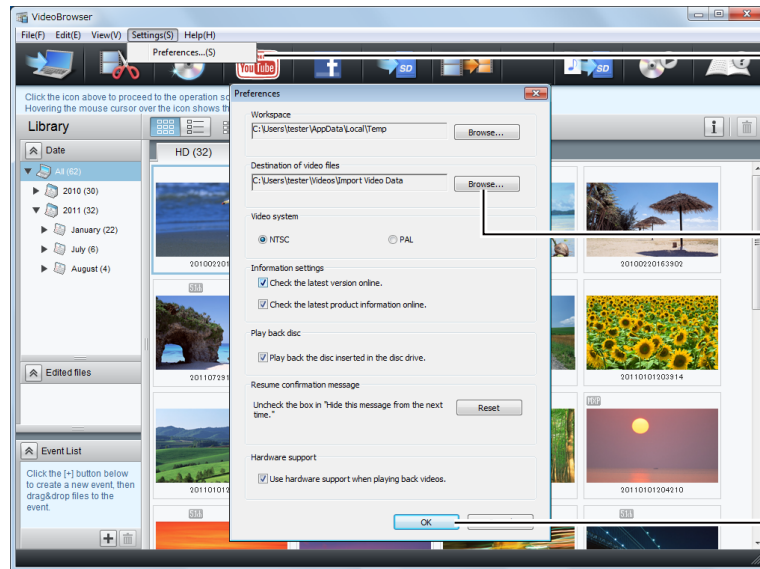
1 Click [Preferences...] in the [Settings] menu.

➡ Preferences screen will be displayed.

2 Click [Browse...].
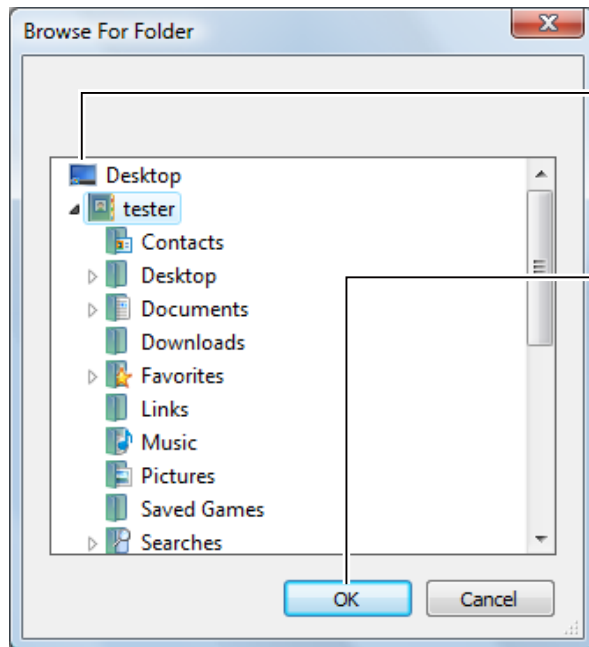
3 Specify the destination to save.

＊ System folders, Windows-only folders, the root directory C:\ and optical drives cannot be selected as the saving destination.

4 Click [OK].

➡ The window on the left will be closed.

5 Click [OK].

➡ Video files will be imported to the specified destination from the next time.

＊ The video files imported before changing the destination remain in former destination.

You can change the name of the video file in the Library. The file name is reflected on the menu screen of a written disc.

1 Click the file to change name.

2 Click [i].

➡ Information panel will be displayed.

3 Enter a new name.

Enter in the "Title" box.
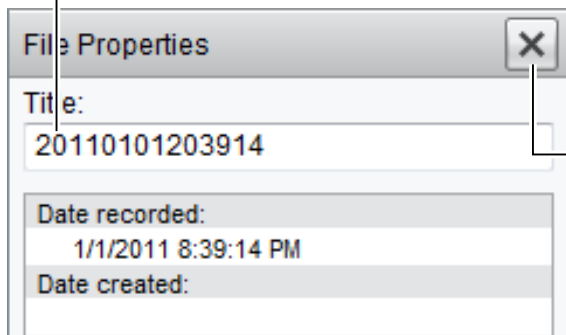
4 Click [×].

❗ **Application of the changed file name**

The changed file name is applied to the following. Note that the original file name is not changed.

- The file name in the Library
- The name of the scene on a written disc (the file name that comes first in the scene is applied)

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Sort video files according to themes (Event List)

STEP 1 Create event folders

You can sort video files according to the themes or purposes just like the folders on the computer. One video file can be added to multiple event folders.
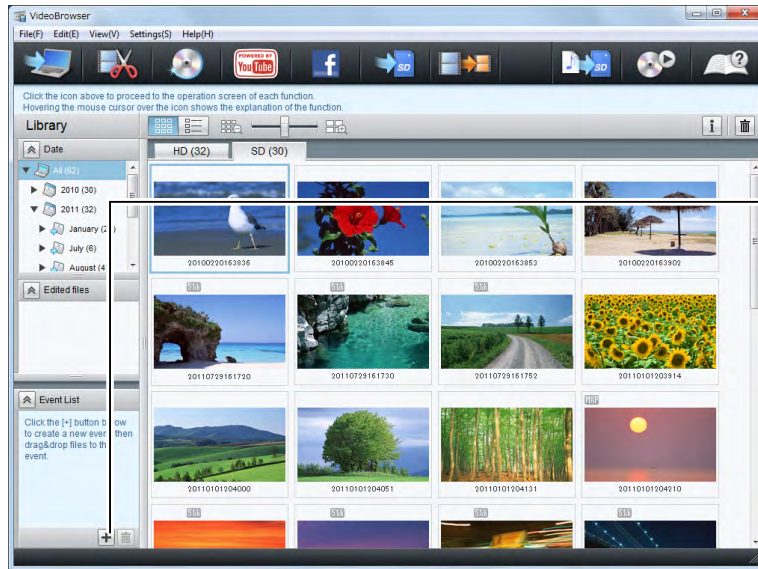
1 Click [+] .
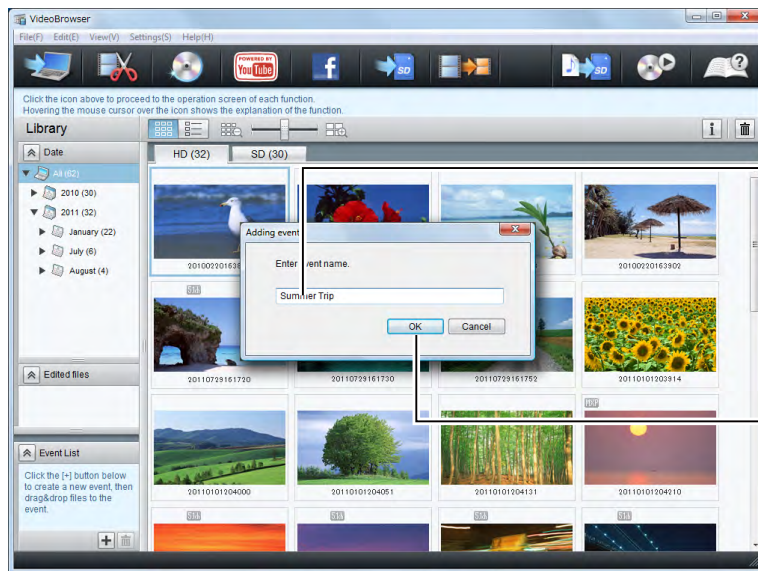
2 Enter event folder name.

Enter the name related to the theme or purpose.

3 Click [OK].

➡ The event folder will be added to the Event List.

STEP 2 Add video files
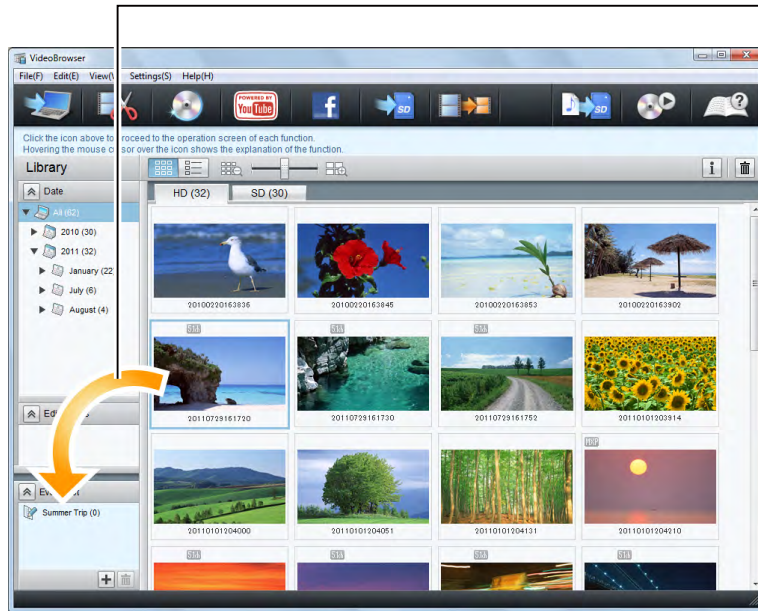
■ Drag&drop the files to the event folder.

➡ The files are registered to the event folder.

- Once you created an event folder, you can add extra files later in the Library screen.
- One video file can be registered to multiple event folders.
- You can drag&drop an event folder to select files for editing and writing.

✎ Excluding files from the event folder

Open the event folder and select files to exclude, then click [🗑] in the upper right of the screen.

A confirmataion message will appear. Select whether you exclude from the event folder only or delete from the Library.
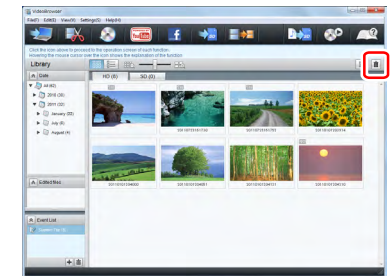
✎ Deleting event folder from the Event List

Select the event folder and click [🗑] in the lower left of the screen.

＊ Even the event folder is deleted, the files in the event folder remains in the Library
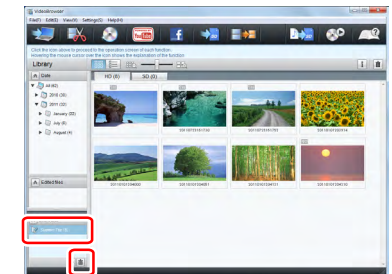
Upload to YouTube

Preparation

You can upload video files to YouTube from VideoBrowser.

∗ MP4 files are not supported.

1 Import video files to the computer.

Refer to P.24 for how to import.

➡ The screen on the left will be displayed when importing is finished.

2 Click .

STEP 1 Select files
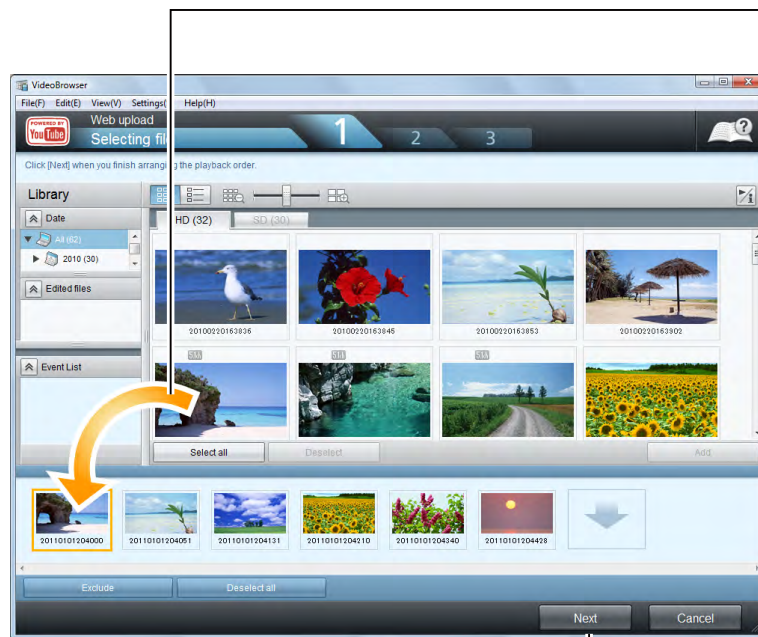
1 Drag&drop the files to the area in the lower half of the screen.

Drag&drop the files after opening the folders in the "Date" or "Event List" column. Click [All] in the "Date" column to show all files in the Library.

- You can add up to 10 files. Note that you cannot upload the same file at the same time.
- Files longer than 10 minutes are divided 10-minute files.
- If you want to select 2 or more files at the same time, click files while holding down the [Ctrl] key on the keyboard.
- Click [Select all] to select all files in the folder that you selected in the "Date" or "Event List" column. Click [Deselect] if you want to cancel.
- You can also add files to the lower half of the screen by clicking [Add] after selecting the files.
- If you want to preview a file, double-click the target file.
- If you dragged&dropped a wrong file by mistake, select the file in the lower half of the screen and click [Exclude].

⚠ Notes for uploading

- If you uploaded the same file twice, the newly uploaded file may not be displayed on the Web site.
- The files with 5.1ch audio will be converted to 2ch.

2 Click [Next].

STEP 2 Select picture quality

1 Select picture quality.

➡ The uploaded file information will be displayed in "Output information".

2 Click [Next].

STEP 3 Enter information

1 Enter your account information.

You can use your Google account if it is linked with your YouTube account. Enter the full Google email address ("username"@gmail.com) into the YouTube account.

＊ Note that you may not be able to access YouTube if you fail to enter the correct user name and password several times.

2 Enter the upload information.

Article	Content
Title	Enter the title of the file you want to upload. If you selected two or more files, "serial number/total number of files uploaded in the same batch" will be displayed in the end after uploading.
Description	Enter a description of the video file.
Category	Select the category in the YouTube Web site.
Tags	Enter keywords to be used for searching in the YouTube Web site. You can enter multiple keywords by entering a space or comma between keywords.
Private	If you check this box, video files are uploaded but they are not released. You can change the release settings later on the YouTube Web site.

3 Click [Start].

➡ Uploading will start.

Q&A about YouTube upload   P.90

⚠ If you cannot upload...

- If a message appears about a failed upload, check on the YouTube Web site. If the file is not uploaded, follow the procedure on P.73 to save it as a new file for video sharing Web site, then upload the new file from the YouTube Web site.

- The number of files to upload within 1 hour may be limited according to YouTube specifications. If you upload the files several times in a short time, the message telling the wrong user name or password will be displayed despite the correct ones are entered. In this case, make an interval when uploading files.

＊ Full operation cannot be guaranteed for future modifications of the YouTube specifications or for every environment.

Upload to Facebook

Preparation

You can upload video files to Facebook from VideoBrowser.

＊ MP4 files and still image files are not supported.
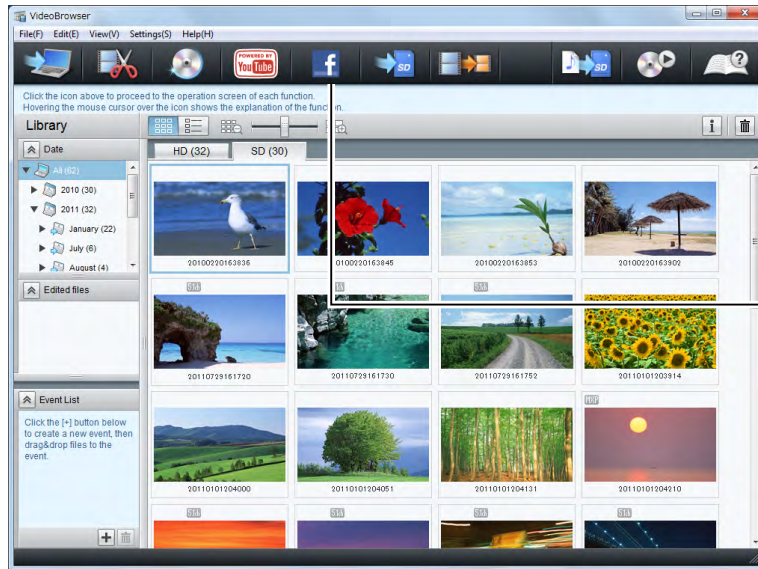
**1** Import video files to the computer.

Refer to P.24 for how to import.

➡ The screen on the left will be displayed when importing is finished.

2 Click .

STEP 1   Select files

1 Drag&drop the files to the area in the lower half of the screen.

Drag&drop the files after opening the folders in the "Date" or "Event List" column. Click [All] in the "Date" column to show all files in the Library.

- You can add up to 20 files. Note that you cannot upload the same file at the same time.
- Following files will be divided when uploading:
  - Files more than 100MB or longer than 2 minutes uploaded from unauthorized account.
  - Files more than 1024MB or longer than 20 minutes uploaded from authorized account.
  * Refer to Facebook's Help for how to authorize your account.
- If you want to select 2 or more files at the same time, click files while holding down the [Ctrl] key on the keyboard.
- Click [Select all] to select all files in the folder that you selected in the "Date" or "Event List" column. Click [Deselect] if you want to cancel.
- You can also add files to the lower half of the screen by clicking [Add] after selecting the files.
- If you want to preview a file, double-click the target file.
- If you dragged&dropped a wrong file by mistake, select the file in the lower half of the screen and click [Exclude].

⚠ **Notes for uploading**

- If you uploaded the same file twice, the newly uploaded file may not be displayed on the Web site.
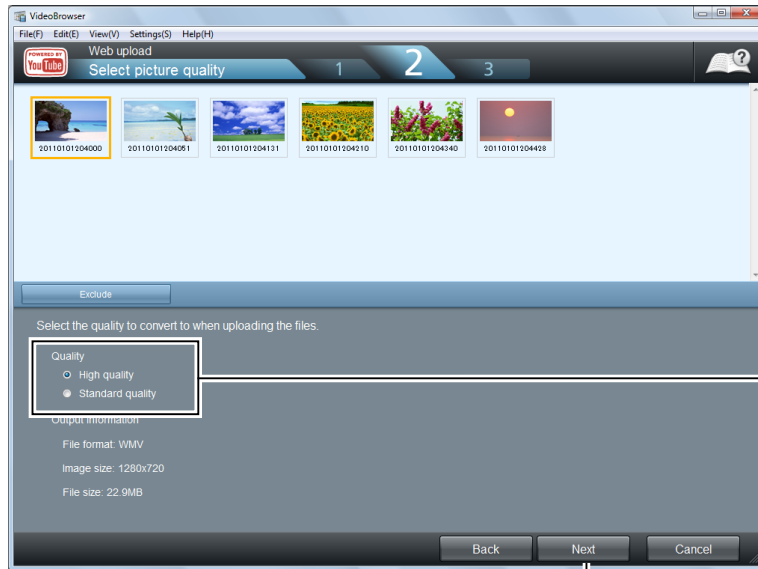- The files with 5.1ch audio will be converted to 2ch.

2 Click [Next].

STEP 2 Select picture quality

1 Select picture quality.

➡ The uploaded file information will be displayed in "Output information".

2 Click [Next].

STEP 3 Enter information

1 Enter Facebook account information.

Enter your account information in the boxes which appear after clicking [Login].

＊ After logging in, the [Login] button will become the [Log out] button. Click this button to log out.

2 Enter the upload information.

Article	Content
Title	Enter the title of the file you want to upload. If you selected two or more files, "serial number/total number of files uploaded in the same batch" will be displayed in the end after uploading.
Description	Enter a description of the video file.

3 Click [Start].

➡ Uploading will start.

⚠ **If you cannot upload...**

• If a message about a failed upload appears, check on the Facebook Web site. If the file is not uploaded, follow the procedure on P.73 to save it as a new file for video sharing Web site, then upload the new file from the Facebook Web site.

∗ Full operation cannot be guaranteed for future modifications of the Facebook specifications and for every environment.
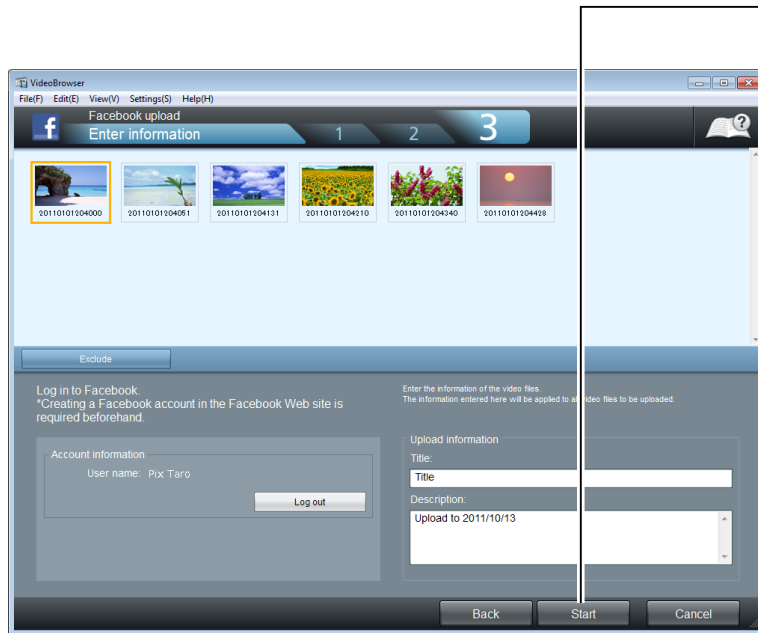
📖 Q&A about Facebook upload　P.90

Convert video file format

Preparation

You can convert the video file format. Converted files can be used for playing back with portable media player or uploading to a video sharing Web site.

＊ The picture quality of the converted file will become lower than that of the original file.

1 Import video files to the computer.

Refer to P.24 for how to import.

➡ The screen on the left will be displayed when importing is finished.

2 Click .

STEP 1 Select files

1 Drag&drop the files to the area in the lower half of the screen.

Drag&drop the files after opening the folders in the "Date" or "Event List" column. Click [All] in the "Date" column to show all files in the Library.

- If you want to select 2 or more files at the same time, click files while holding down the [Ctrl] key on the keyboard.
- Click [Select all] to select all files in the folder that you selected in the "Date" or "Event List" column. Click [Deselect] if you want to cancel.
- You can also add files to the lower half of the screen by clicking [Add] after selecting the files.
- If you want to preview a file, double-click the target file.
- If you dragged&dropped a wrong file by mistake, select the file in the lower half of the screen and click [Exclude].

2 Click [Next].

STEP 2 Select purpose

1 Select the purpose of the conversion.

➡ The converted file information will be displayed in "File format after conversion".
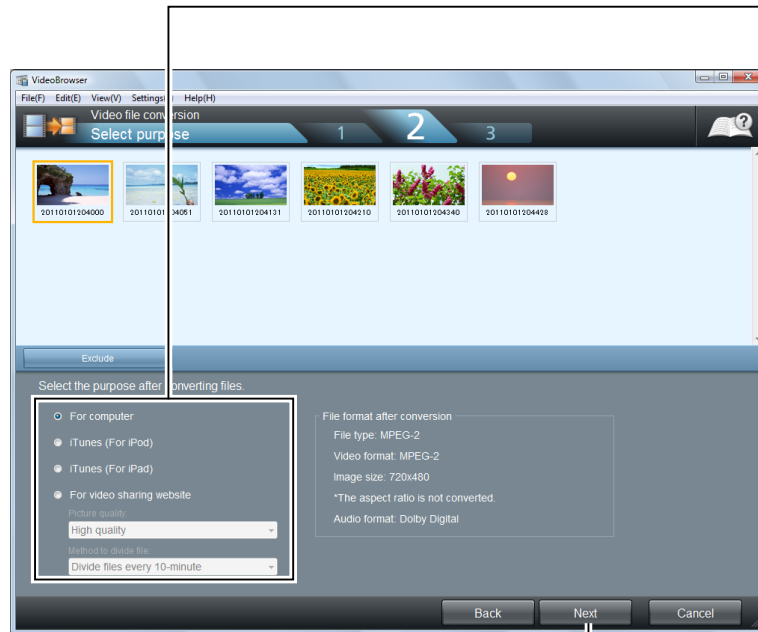
Purpose	Content
For computer	Convert to a MPEG-2 format file. Converted file can be used with the software supporting MPEG-2 format. ✱ Files with 24F frame rate will become 60i. ✱ Files with 5.1ch audio will become 2ch.
iTunes(for iPod)	Convert to a file to transfer to an iPod through iTunes. To use this file on iPod, you need to register with iTunes. ✱ Files with 5.1ch audio will become 2ch.
iTunes(for iPad)	Convert to a file to transfer to an iPad through iTunes. To use this file on iPad, you need to register with iTunes. ✱ Files with 5.1ch audio will become 2ch. ✱ Converted files are only available with iTunes 9.2 and iTunes 10.
For video sharing Web site	Convert to a file to upload to a video sharing Web site. Select the picture quality (applied to files in [HD] tab only) and the method to divide the file. ✱ Files with 5.1ch audio will become 2ch.

2 Click [Next].

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STEP 3 Select destination to save
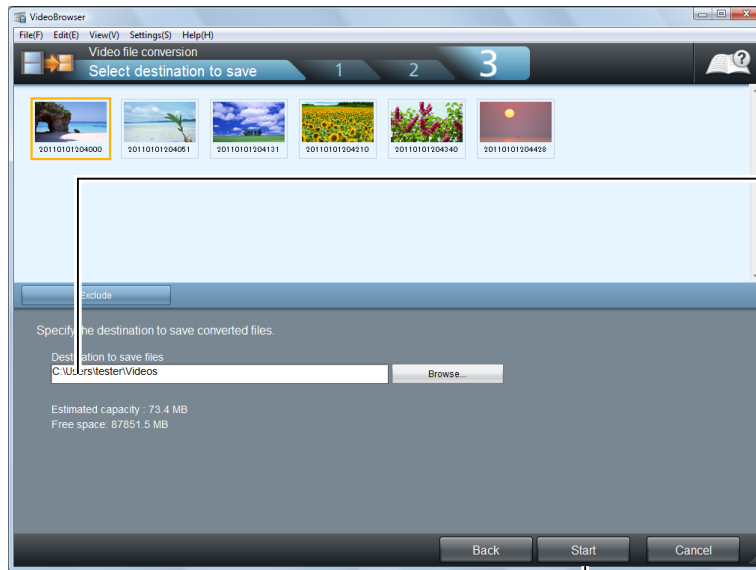
1 Specify the destination.

Converted files are saved in the following destination by default. Click [Browse...] and select the destination if you want a different destination.

Windows XP
C:\Documents and Settings\(User account name)\My Documents\My Video
＊ Files are saved in "My Documents" if "My Video" does not exists.
Windows Vista /Windows 7
C:\Users\(User account name)\(My) Videos
＊ Files are saved in "(My) Documents" if "(My) Videos" does not exists.

📖 How to open the destination   P.91

📖 Q&A about file conversion   P.90

2 Click [Start].

➡ File conversion will start.

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Preparation

You can export video files to the media such as a SD Memory Card and play back on the camcorder. Files edited with VideoBrowser can also be exported.

⛔ Before exporting

- You can export; video files that were imported from the camcorder using VideoBrowser or supported Transfer Utility; video files edited with VideoBrowser. However the files converted to MPEG-2 format using camcorder cannot be exported.

- Free space of at least the same volume of the data to be exported is required in the workspace.

- You cannot export the files that were recorded in a video format or video system different from that of the camcorder.

- You can export as many files as possible until the maximum number of files in the export destination is reached.

- For the sake of protecting your recordings, it is recommended to save all the video files in the export destination onto the computer before exporting.

1 Import video files to the computer.

Refer to P.24 for how to import.

➡ The screen on the left will be displayed when importing is finished.

2 Connect the device to export to.

When exporting to a SD Memory Card...
- Make sure the card is not write-protected.
- Use a card supporting SD Speed Class and also you have recorded and saved on the camcorder.
- A memory card rated CLASS 4 or higher is required to export the video files recorded in MXP mode and FXP mode.
- Connect a card reader/writer if your computer does not have an SD Memory Card slot.
- When exporting to the card inserted in the camcorder, always use the compact power adapter to power the camcorder. Make sure that the USB cable is correctly connected to the computer.

When exporting to the camcorder (compliant camcorders only)...
- Always use the compact power adapter to power the camcorder. Make sure that the USB cable is correctly connected to the computer.

3 Click [ ].

STEP 1 Select files
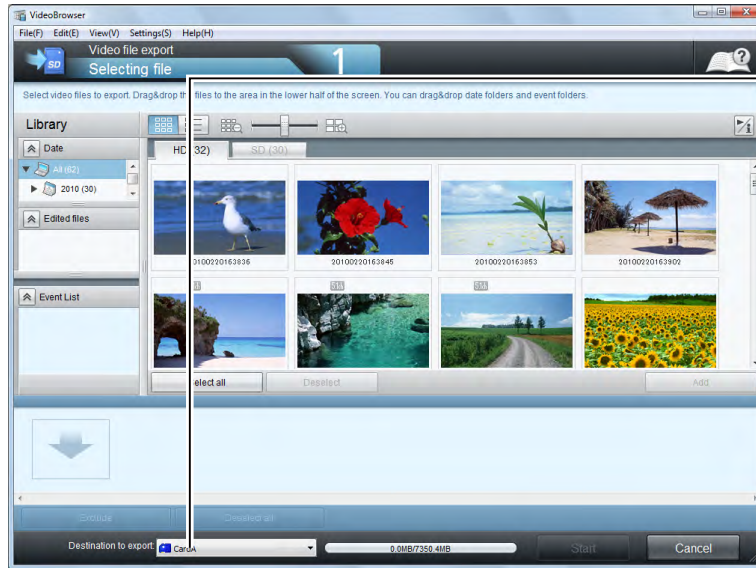
1 Select the destination to export to.

2 Drag&drop the files to the area in the lower half of the screen.

Drag&drop the files after opening the folders in the "Date" or "Event List" column. Click [All] in the "Date" column to show all files in the Library.

- When the total size of the file exceeds the capacity, the value in the capacity bar turns red. Reduce the number of files in this case.
- If you want to select 2 or more files at the same time, click files while holding down the [Ctrl] key on the keyboard.
- Click [Select all] to select all files in the folder that you selected in the "Date" or "Event List" column. Click [Deselect] if you want to cancel.
- You can also add files to the lower half of the screen by clicking [Add] after selecting the files.
- If you want to preview a file, double-click the target file.
- If you dragged&dropped a wrong file by mistake, select the file in the lower half of the screen and click [Exclude].

3 Click [Start].

➡ Exporting will start.

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Preparation

You can export music files to the media such as a SD Memory Card and play back on the camcorder along with video files.

1 Connect the device to export to.

When exporting to a SD Memory Card...

- Make sure the card is not write-protected.
- Connect a card reader/writer if your computer does not have an SD Memory Card slot.
- When exporting to the card inserted in the camcorder, always use the compact power adapter to power the camcorder. Make sure that the USB cable is correctly connected to the computer.

When exporting to the camcorder (compliant camcorders only)...

- Always use the compact power adapter to power the camcorder. Make sure that the USB cable is correctly connected to the computer.
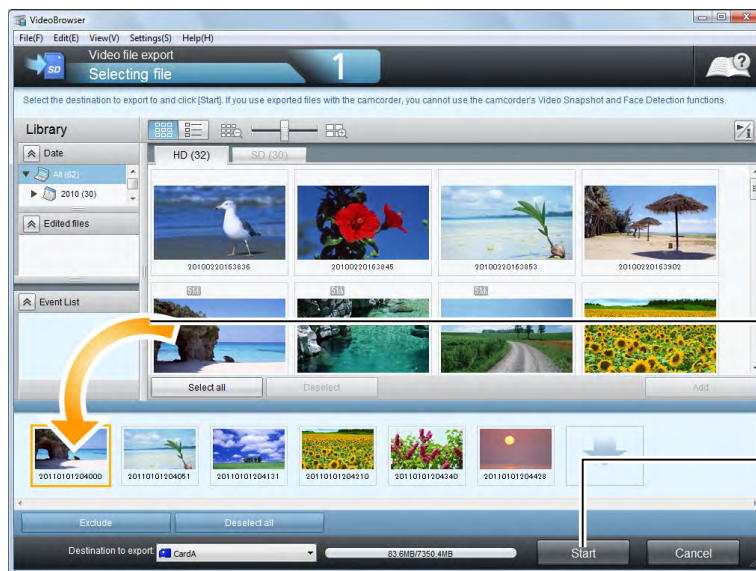
2 Click .

➡ Music file export screen will be displayed.

＊ When you go back to the Library screen from the music file export screen, the Library screen may be displayed behind the other screens. If the Library screen is not displayed, click [VideoBrowser] on the task bar.

No music files?

If you do not have music files, you can import them from the Music Data Disc. Insert the disc while the "Before using VideoBrowser" message is displayed when starting VideoBrowser. Importing will start automatically.

STEP 1 Select files

1 Click [Add].
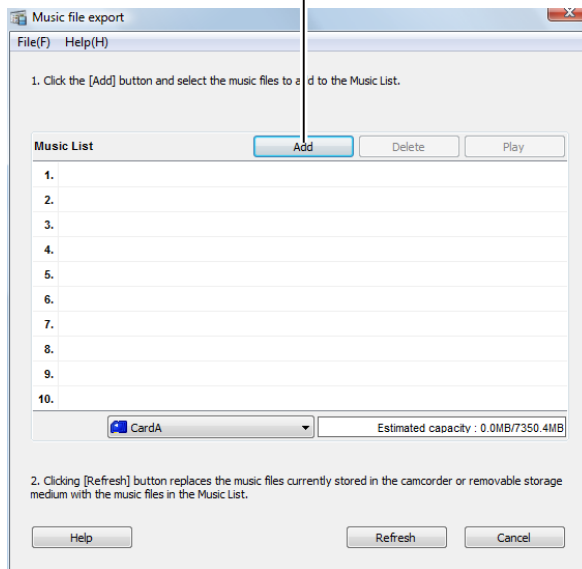
2 Select music files.

- You can add up to 10 files
- You can export files that meet the following conditions:

Article	Conditions
File format	WAVE (.wav, .wave) files in linear PCM
File size	Less than 1 GB
Channel	2ch
Quantization bit rate	16bit
Sampling frequency	48 kHz or 44.1 kHz

3 Click [Open].
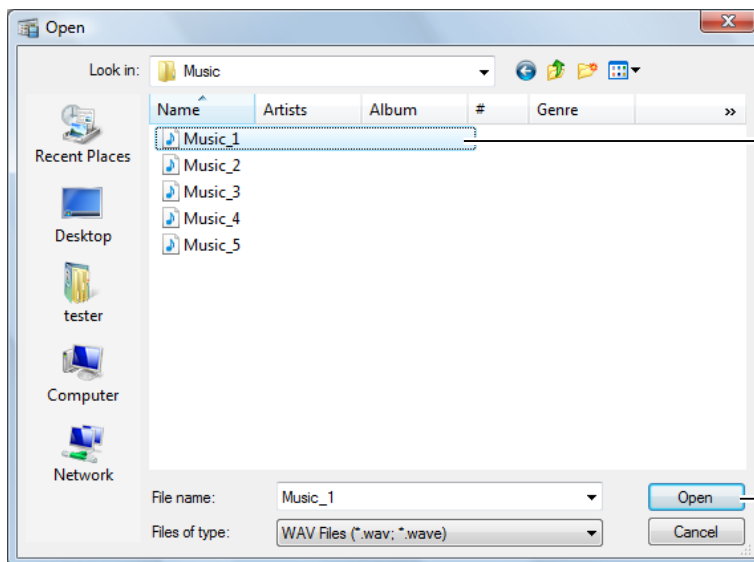
➡ Copies of the selected files are created in the following destination and added to the Music List.

Windows XP
C:\Documents and Settings\(User account name)\My Documents\My Music\Import Music Data
＊ Files are saved in "My Documents" if "My Music" does not exists.
Windows Vista / Windows 7
C:\Users\(User account name)\(My) Music\Import Music Data
＊ Files are saved in "(My) Documents" if "(My) Music" does not exists.

📖 How to open the destination   P.91

STEP 2 Export
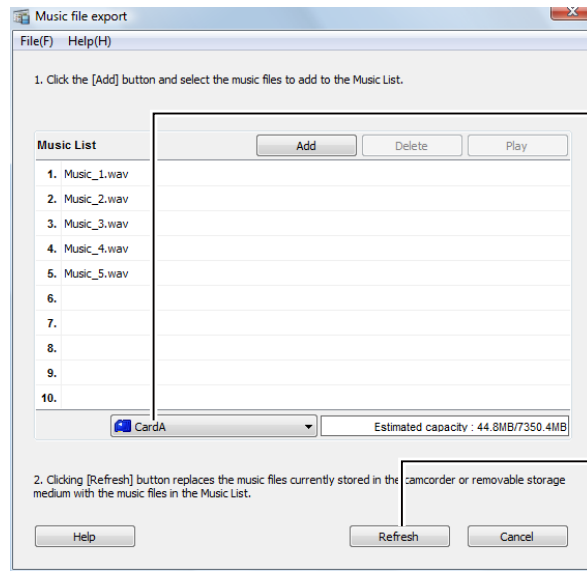
1 Select the destination to export to.

⚠ When [Estimated capacity] bar turns red...

The value in the capacity bar turns red when the total size of the files to export exceeds the capacity of the selected destination. Reduce the total file size in the Music List. Select the files and click [Delete].

2 Click [Refresh].

➡ A confirmation message will appear.
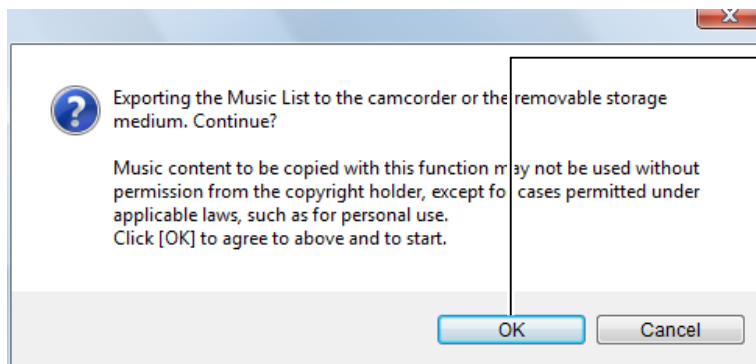
3 Read the message and click [OK].

➡ Any music files in the destination will be replaced by the music files in the Music List.

∗ While exporting files, do not disconnect the device to which you are exporting. If the device is disconnected, files may not be exported completely and can become corrupted (unplayable).

✐ Deleting the music file in the destination

Click [Refresh] while there are no music files in the Music List. The music files in the destination will be erased.

Opening Preferences window

In the Preferences window, you can change the configurations of the operations in VideoBrowser.

1 Click [Settings] menu.
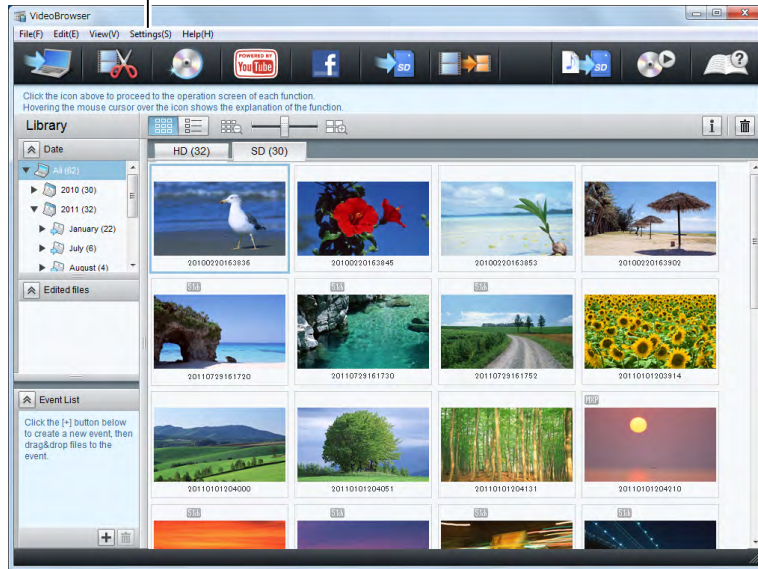
2 Click [Preferences...].

➡ Preferences window will appear.
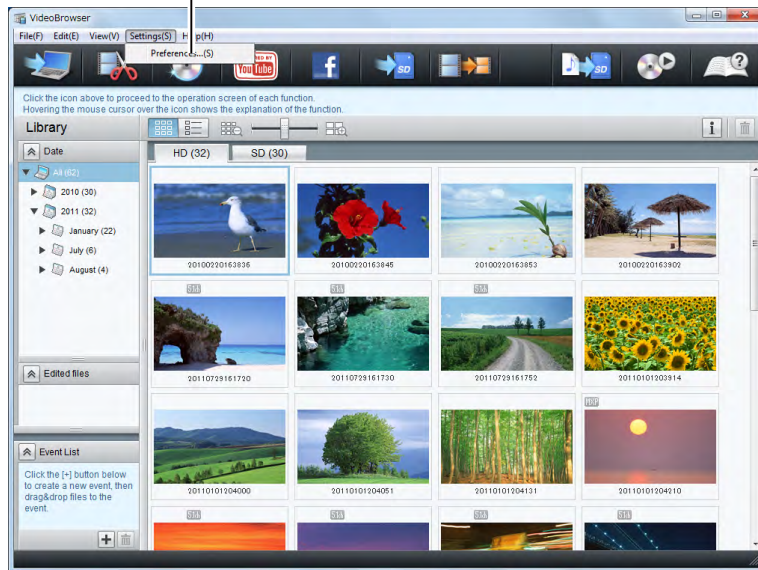
Setting options in the Preferences

Workspace

Set a place for the VideoBrowser workspace used when editing videos or writing discs.

Destination of video files

Set the destination to save video files imported to the computer.

Play back disc

Check the box if you want to start playback when a disc is inserted to the computer's drive.

Hardware support

Check the box if you want to use the functions of the hardware in your computer when playing back videos.

*Uncheck this box if playback is not performed correctly.

Preferences

Workspace

C:\Users\tester\AppData\Local\Temp   Browse...

Destination of video files

C:\Users\tester\Videos\Import Video Data   Browse...

Video system

  ● NTSC   ○ PAL

Information settings

  ☑ Check the latest version online.

  ☑ Check the latest product information online.

Play back disc

  ☑ Play back the disc inserted in the disc drive.

Resume confirmation message

Uncheck the box in "Hide this message from the next time."   Reset

Hardware support

  ☑ Use hardware support when playing back videos.

OK   Cancel

Video System

Choose the video system when handling the video files in VideoBrowser. The video system selected here will be applied when writing a disc and exporting the files to SD Memory Card or other media.

Information settings

Check the box if you want to be notified of the latest version of VideoBrowser and software information via the Internet.

*Information will be displayed only when your computer is connected to the Internet.

Resume confirmation message

Click [Reset] if you want to resume displaying the message that appears when starting VideoBrowser and starting editing.

✳ This is the Preferences window displayed in the Library screen. The provided options in the Preference window vary depending on the screen displayed. In the editing screen, the option "Create chapters between video files" P.31 is provided.

Troubleshooting

■ Installation/starting

? I can't install VideoBrowser.

VideoBrowser can be installed to the computer that meets the system requirements on P.9.

? What's the certification code?

The certification code is the passcode to install VideoBrowser.If your computer is connected to the Internet, the certification process is performed automatically. On the other hand, if your computer is not connected to the Internet, you have to perform certification process manually, and you will be requested to enter the certification code.

? Where can I acquire the certification code?

Contact PIXELA CORPORATION's User Support Center in your region. P.92

? A message regarding the compatibility of the program appears.

This message appears if you use Windows 7 and cancel the installation in the halfway. Click [Cancel] when this message is displayed.

? I can't start VideoBrowser.

You must be authorized as an Administrator to use VideoBrowser. Note that VideoBrowser does not start when the other software from PIXELA CORPORATION, such as ImageMixer 3 SE, is already running.

? VideoBrowser does not work properly.

Exit VideoBrowser and restart the computer.

? My camcorder is not recognized by the computer.

Check the following:

- Have you installed VideoBrowser?
- Have you turned on the camcorder?
- Is the camcorder powered using the compact power adapter?
- Is the USB cable connected to the computer properly?
- Is the camcorder switched to the movie playback mode?

Operate following procedures if the camcorder is still not recognized.

- Connect to another USB port of the computer.
- Disconnect the USB cable, then restart the computer and reconnect the camcorder with the computer following the correct procedure.
- Disconnect any USB devices other than the camcorder, keyboard, and mouse.
- If the camcorder is connected via a USB hub, connect the camcorder directly to the computer.
- If software is running in the background, exit them and connect the camcorder again.

■ Importing

? Importing stops halfway.

Try another USB port of the computer. For desktop computers, try the USB port on the back.

? It takes a long time to import video from the camcorder to the computer.

- It takes a long time when importing many files in one batch or importing a large video file. When importing, close all software other than VideoBrowser.
- Processing speed may vary depending on your computer's configuration (for example, CPU performance and RAM), or on the content of the video.
- If software is running in the background, exit them before importing.
- Try another USB port of the computer. For desktop computers, try the USB port on the back.

? I brought the video files that could be used with ImageMixer 3 SE from another computer but VideoBrowser does not import them.

When you brought such files from another computer, you need to import them manually. Click [Add folder to Library...] in the [File] menu on the Library screen, and select the target folder.

■ Library screen

? ⚠ (Cannot find this file) appears.

You will not be able to operate files in the Library if, for example, you open the folder on Windows in which the imported files are saved, and delete or moved the files in it.

If you moved files by mistake, return them to the original location. If you deleted the files, import them again.

■ Editing

? Playback is not performed smoothly on the preview screeen.

In the preview screen, the playback may not be performed smoothly or the text may be distorted, however these are not reflected to the edited content. To view the playback without flaws, export the edited content as a video file and play it back. In this case, make sure to save the editing operation before exporting.

? It takes a long time to export edited file.

Processing speed may vary depending on your computer's configuration (for example, CPU performance and RAM), or on the content of the video.

? The edited file size becomes larger than the original.

If re-encoding is applied to the edited content, the file size may become larger than that of the original.

? Is the picture quality after editing changed from the original?

- The picture quality in the edited parts may become lower than the original due to re-encoding. The parts which are not edited retain the original picture quality.
- When you edited files of different resolutions, edited file will be exported in the largest resolution among the files used for editing. In this case, exporting may take time and the picture quality of the edited file become lower than the original.

? The noise is heard when playing back the edited file.

Noise may be generated between the files used for editing. You can reduce the noise by applying Fade-in and Fade-out effects to the files.

■ Writing

? Drives are not detected.

If the software other than VideoBrowser is running, exit these software.

? I can't add files in STEP 1.

You cannot add files which have different video system from that of the Preferences.

? It takes a long time to write a disc.

Processing speed may vary depending on your computer's configuration (for example, CPU performance and RAM), or on the content of the video.

? I can't write on an 8 cm disc.

Writing on 8 cm discs is not supported.

? I can't write on a disc.

- Is the disc supported by VideoBrowser? P.10
- Does the writing drive support the disc? Check the disc types supported by your computer's drive.
- Is there sufficient free space in the computer's working hard disk? Refer to the table below for the required workspace to create a disc.

? The message "Not enough disk space for the workspace." appears.

The free space referred in the below table is required in the workspace to write a disc. Increase the free space in the workspace, or change the workspace in the Preferences.

Required free space in the workspace

Disc	Required space
DVD-Video	At least three times the volume of data to be written on the disc.
AVCHD	
Blu-ray	At least twice the volume of data to be written on the disc.
DataDisc	At least the size of data to be written on the disc.

? Disc writing fails when using a rewritable disc that I erased the existing data.

Disc writing may fail if the data on a rewritable disc has been erased using software other than VideoBrowser. When using a rewritable disc which has already been recorded, insert the disc as it is. VideoBrowser will erase the data before writing.

? I want to specify the scenes on the menu screen.

You need to combine the files for a scene and export them as a single video file in the editing screen before starting writing. Edit and write a disc in the following way:

1. Click ✂ in the Library screen.

2. Click [Preferences...]in the [Settings] menu.

3. Uncheck "Create chapters between video files".

4. Select files that you wish to combine as a scene and export them as a single file.

5. Repeat step 1 to 4 as necessary.

6. Click 💿 in the Library screen.

7. In STEP 1 of disc writing, select the files created through step 1 to 5.

8. In STEP 3 of disc writing, choose [Do not combine files] and finish writing.

? Disc title and scene names are not fully displayed.

Too long title will be omitted as "…". Adjust the title length by checking with the menu screen displayed in STEP 4 of disc writing. P.51

? Writing a disc containing videos recorded in MXP mode takes longer time.

Writing videos recorded in MXP mode will take longer time.

Task	Time required to write the disc	Free space required in the workspace
To write videos (approx. 30 min./5 GB) recorded in MXP mode (recording mode) on a DVD-R disc (4.7 GB)	Approx. 4 hours	Approx. 15 GB
To write videos (approx. 60 min./10 GB) recorded in MXP mode (recording mode) on a DVD-R DL disc (8.5 GB)	Approx. 8 hours	Approx. 30 GB

∗ Approximate values calculated based on the system requirement on P.9.

∗ Times will vary depending on the maximum writing speed of the disc drive and disc used.

■ Playback

? I want to change the screen size.

Drag the edge of the window to the size you like.

? Disc is not played back smoothly.

If you did not combine files in STEP 3 of disc writing P.50, playback may pause briefly at the points between original video files. Even if you combine the files, this will happen at the joining points of the scenes. If you want to play back without brief pause, export a video file after combining multiple video files in the editing screen.

? I can't play back a disc with VideoBrowser.

• You cannot play back the disc that you created by selecting "DVD-Video" in STEP 2 of disc writing P.48.

• Videos may not be played back properly if a playback freeware or codec is installed.

■ Others

? I can't transfer a file exported for iTunes to my iPod / iPad .

- iTunes is required to transfer files to the iPod/iPad. You can download iTunes from the Web site of Apple Inc. Use iTunes to transfer the exported file to your iPod / iPad.
- If you installed iTunes, restart the computer before transferring.

? I have installed the iTunes but I can't convert a file for iTunes.

Even after installing iTunes, the message "iTunes 9 or 10 is not installed on this computer. This function cannot be used." may be displayed. Restart VideoBrowser in this case.

? I can't upload to YouTube.

- A YouTube account is required for upload. Create the account beforehand.
- Convert the file as a file for video sharing Web site P.73, then upload it from the YouTube Web site.

? The file name displayed on the YouTube Web site gets garbled.

If you use 2-byte characters for the file name, the file name may get garbled on the Web site.

? I want to erase the YouTube account information saved in VideoBrowser.

Delete the account information in the STEP 3 of YouTube upload screen and click [Back].

? I can't upload to Facebook.

Facebook account is required for upload. Create the account beforehand.

? Though I uploaded on file to Facebook the file is divided.

Following files will be divided when uploading:

- Files more than 100MB or longer than 2 minutes uploaded from unauthorized account.
- Files more than 1024MB or longer than 20 minutes uploaded from authorized account.
  - ＊ Refer to Facebook's Help for how to authorize your account.

? I can't exit VideoBrowser.

Close all dialog boxes and setting screens before exiting.

❓ File extensions are not displayed.

Follow the steps below to show file extensions.

[Windows XP]

1. Open any folder.

2. Click [Tool] menu - [Folder Options] - [View] tab.

3. Uncheck [Hide extension for known file types].

[Windows Vista / Windows 7]

1. Open any folder.

2. Click [Organize] - [Folder and search options] - [View] tab.

3. Uncheck [Hide extension for known file types].

❓ How to open the destination that begins with "C:\" ?

"C:/" stands for the C drive in the computer. Open the window of the C drive and click the folders in it.

For example, if you open the following destination on Windows 7, follow the procedures below:

C:\Users\(User account name)\My Videos\Import Video Data

1. Click [Start] menu.

   ∗ The [Start] menu is the button on the lower left of the screen, which is used when shutting down the computer.

2. Click [Computer].

   ∗ On Windows XP, this article appears as [My Computer].

3. Double-click [Local Disk (C:)].

4. Double-click [Users] folder.

5. Double-click the folder of your user account.

   ∗ In general, the user account is the name displayed on the top of the window that appears when clicking the [Start] menu.

   ∗ If the video files were imported by a different user, select the user account folder that imported the files.

6. Double-click [My Videos] folder.

7. Double-click [Import Video Data] folder.

Contact the following numbers for inquiries and questions about VideoBrowser.

PIXELA CORPORATION User Support Center

■ USA and Canada

+1-800-458-4029 (toll-free)

Language: English

■ Europe (UK, Germany, France, and Spain)

+800-1532-4865 (toll-free)

Language: English, German, French, Spanish

■ Other Countries in Europe

+44-1489-564-764

Language: English, German, French, Spanish

■ Asia (Philippines)

+63-2-438-0090

Language: English

■ China

10800-163-0014 (toll-free)

Language: Chinese

Web site

Visit our Web site for the latest information and downloads.

http://www.pixela.co.jp/oem/canon/e/

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