



Multimedia Projector

PC Free Operation Guide



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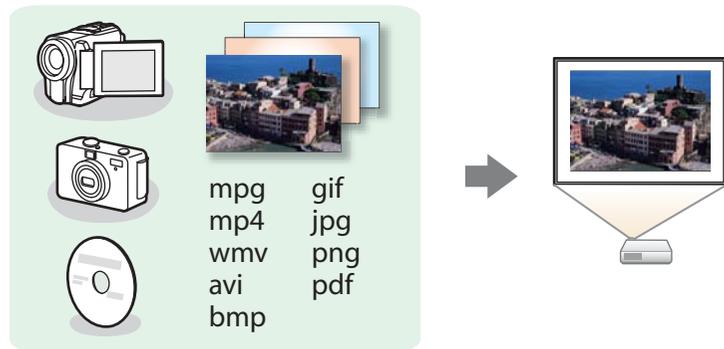


PC Free Summary

You can use PC Free to project files stored on USB storage devices, such as USB flash drives or USB hard disks, that are connected to the projector without using a computer.

PC Free Examples

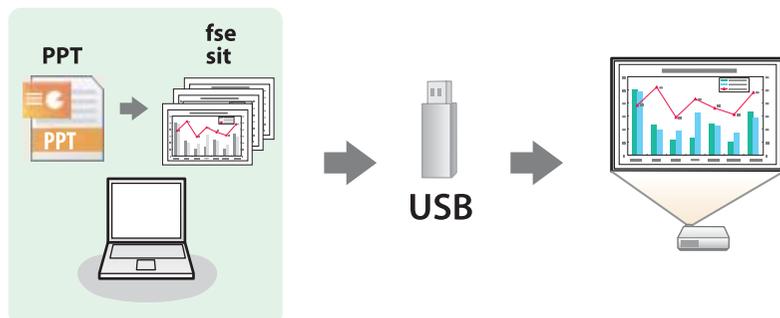
Projecting images and movies stored on a USB storage device



You can use PC Free to project individual movie or image files or to continuously project slide shows using more than one file.

- ☛ "Projecting Image and Movie Files" [p.16](#)
- ☛ "Projecting Image Files in a Folder in Sequence (Slideshow)" [p.17](#)

Projecting PowerPoint files converted using EasyMP Slide Converter



Convert your PowerPoint file into a file format that can be projected by PC Free and store the file on a USB storage device. You can then project a PowerPoint file without using a computer.

☛ "Projecting Files Created with PowerPoint" [p.11](#)

See the following for more information on converting PowerPoint files to scenarios using EasyMP Slide Converter.

☛ [EasyMP Slide Converter Operation Guide](#)

Specifications for Files that can be Projected Using PC Free

Type	File Type (Ex-tension)	Notes
Scenario file	.fse .sit*	This is the file format created by converting PowerPoint files using EasyMP Slide Converter so that they can be played by PC Free. In this Guide these files are known as scenarios.
Image	.jpg	The following cannot be projected. <ul style="list-style-type: none"> • Images with a resolution greater than 8192 × 8192 • Images with a file size greater than 12 MB • Files with the extension ".jpeg" • CMYK color mode formats • Progressive formats Due to the characteristics of JPEG files, images may not be projected clearly if the compression ratio is too high.
	.bmp	Cannot project images with a resolution greater than 2048 × 2048.
	.gif	<ul style="list-style-type: none"> • Cannot project images with a resolution greater than 2048 × 2048. • Cannot project animated GIFs.

Type	File Type (Extension)	Notes
	.png	Cannot project images with a resolution greater than 2048 × 2048.
PDF	.pdf	<ul style="list-style-type: none"> You can project PDF files version 1.7 or earlier. Cannot project encrypted PDFs.

* You can also project scenarios (SIT files) created using the application software EMP SlideMaker and EMP SlideMaker2.

See the following for more information on projecting each file type.

- Projecting Scenario Files
 - ☛ "Projecting Files Created with PowerPoint" [p.11](#)
- Projecting Image Files
 - ☛ "Projecting Image and Movie Files" [p.16](#)
- Projecting PDF Files
 - ☛ "Projecting PDF Files" [p.13](#)

Supported movie files

File Type (Extension)	Movie Codec	Audio Codec	Recording Quality
.mpg*	MPEG-2	MPEG-1 Layer1/2 MPEG contents with no sound can be played back. Linear PCM and AC-3 audio cannot be played back.	Maximum bit rate: 12 Mbps Maximum resolution: 1280 × 720
.mp4*	MPEG-4 ASP MPEG-4 AVC	MPEG-4 AAC-LC	
.wmv	WMV9	WMA	

File Type (Extension)	Movie Codec	Audio Codec	Recording Quality
.avi	Motion JPEG	Linear PCM ADPCM	

* Files with the extension .mpeg cannot be projected.

See the following for more information on projecting movie files.

☛ "Projecting Image and Movie Files" [p.16](#)



- USB storage devices that incorporate security functions sometimes cannot be used.
- Files to which DRM (Digital Rights Management) is applied cannot be projected.
- If you use a USB storage device with a slow access speed when playing back movies (when transmitting at higher bit rates), the movie files may not playback correctly, or the sound may skip or not be output.
- The projector does not support media formatted on some file systems. If you have trouble when projecting, use media formatted under Windows.
- Format the media in FAT16/32.



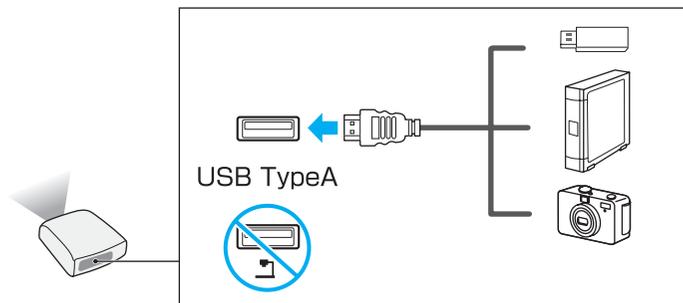
Using PC Free

Although the following steps are explained based on the remote control, you can perform the same operations from the control panel.

Starting and Closing PC Free

Starting PC Free

- 1 Turn on the projector, and then press the [USB] button.
The input source changes to USB.
- 2 Connect the USB storage device to the **USB(TypeA)** port on the projector.



Attention

- If you use a USB hub, the connection may not operate correctly. Devices such as digital cameras and USB storage devices should be connected to the projector directly.
- When connecting and using a USB-compatible hard disk, make sure you connect the AC adaptor supplied with the hard disk.
- When connecting a digital camera or hard disk, use the USB cable supplied with or specified for use with the device.
- Use a USB cable that is less than 3 m in length. If the cable exceeds 3 m, PC Free may not function correctly.

- 3 PC Free starts and the file list screen is displayed.



- The following files are displayed as thumbnails (file contents are displayed as small images).
 - JPEG files
 - FSE/SIT files (an image of the first slide)
 - PDF files (an image of the first page of the PDF)
 - MPEG/WMV/AVI files (an image 15 seconds from the start of the movie)

- Other files or folders are displayed as icons as shown in the following table.

Icon	File	Icon	File
	FSE files*		MPEG files
	SIT files*		WMV files
	JPEG files*		PFX files (Client Certificate/Web Server Certificate)
	BMP files		P12 files (Client Certificate/Web Server Certificate)
	GIF files		CER files (CA certificate)
	PNG files		DER files (CA certificate)
	AVI (Motion JPEG) files*		PEM files (CA certificate)
	PDF files*		

* When it cannot be displayed as a thumbnail, it is displayed as an icon.



- When AutoRun is set for a scenario, it is automatically played back with the highest priority over other input sources. To stop playback, press the [Esc] button on the remote control.
 - "Operations While Playing Back Scenarios" [p.11](#)
- You can also insert a memory card into a USB card reader and then connect the reader to the projector. However, some commercially available USB card readers may not be compatible with the projector.
- If the following screen (Select Drive screen) is displayed, press the [←], [→], [⏪], or [⏩] button to select the drive you want to use, and then press the [↵] button.



- To display the Select Drive screen, position the cursor on **Select Drive** at the top of the file list screen, and then press the [↵] button.
- The projector can recognize up to eight media at a time.

Closing PC Free

- 1** When playing back a file, press the [Esc] button to stop playback.
- 2** Remove the USB device from the projector.
For digital cameras, hard disks, and other powered devices, turn off the device and then remove it from the projector.

Attention

Do not disconnect the USB device from the projector while it is being accessed.



If not all of the files and folders are displayed on the current screen, press the [↓] button, or position the cursor on **Next Page** at the bottom of the screen, and then press the [↵] button.

To return to the previous screen, press the [↑] button, or position the cursor on **Previous Page** at the top of the screen, and then press the [↵] button.

- 2** Press the [↵] button.

The selected image is displayed.

When a folder is selected, the files in the selected folder are displayed. To return to the previous screen, position the cursor on **Back to Top** and press the [↵] button.

PC Free Basic Operations

The following describes the procedures for projecting images, movies, and scenarios using PC Free.

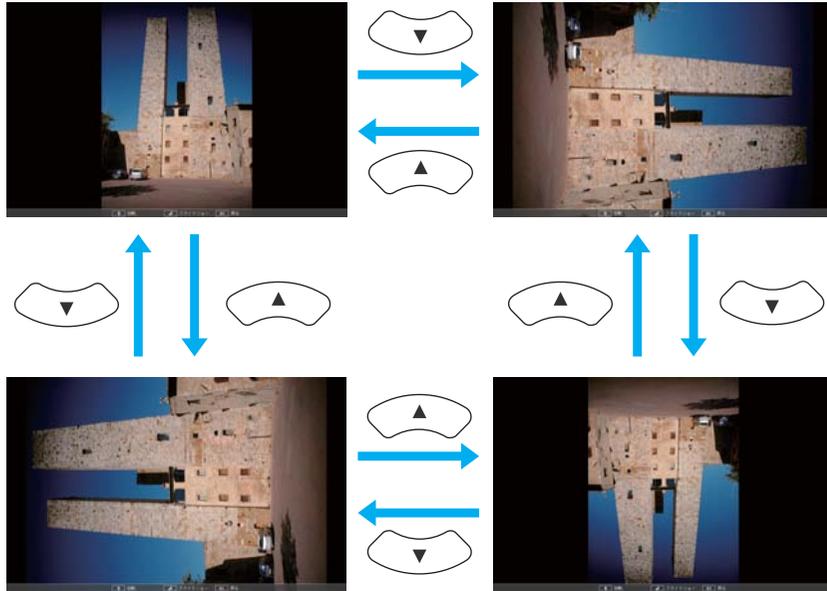
- 1** Use the [⏪], [⏩], [⏴], or [⏵] button to select the file or folder you want to project.



Rotating the Image

You can rotate the image in 90° increments when projecting an image file with PC Free.

- 1** Display images or run Slideshow.
- 2** While projecting, press the [⏴] or [⏵] button.



To project a PowerPoint file with PC Free, first convert it to an FSE or SIT file using the supplied EasyMP Slide Converter software.

➡ [EasyMP Slide Converter Operation Guide](#)

In this Guide, converted files are known as scenarios.

This section describes the method for playing scenarios stored on a USB storage device, and the operations during scenario playback.

Playing a Scenario

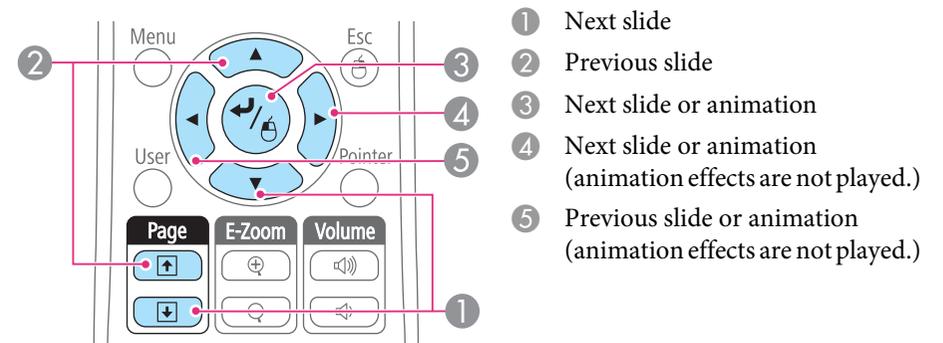
- 1** Start PC Free.
 ➡ "Starting and Closing PC Free" [p.7](#)
 The file list screen is displayed.
- 2** Press the [◀], [▶], [⏪], or [⏩] button to select the scenario you want to playback.
- 3** Press the [↵] button.
 Playback starts.

Operations While Playing Back Scenarios

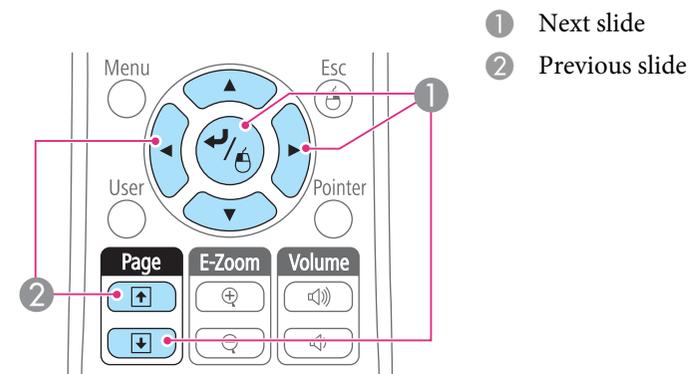
You can perform the following operations using the remote control while playing a scenario.

To switch screens

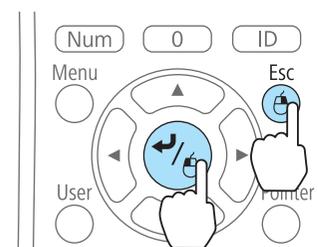
FSE files



SIT files



To stop playback



When you press the [Esc] button, the message "Do you want to quit playing the scenario?" is displayed. Select **Exit**, and then press the [↵] button to stop playback.

Select **Return**, and then press the [↵] button to continue playing the file.

You can use the following functions when projecting a file with Slideshow.

- Freeze



- A/V Mute
- E-zoom
- Pointer
-  [User's Guide](#)

You can project PDF files with PC Free. In PDF files, you can move pages up or down, enlarge, or rotate.

- 1** Start PC Free.
The file list screen is displayed.
☛ "Starting and Closing PC Free" p.7
- 2** Press the [⏪], [⏩], [⏴], or [⏵] button to select the PDF file you want to project.



If the file extension is not .pdf, the file is not displayed in the file list.

- 3** Press the [↶] button.
The first page in the PDF file is displayed at full screen size.

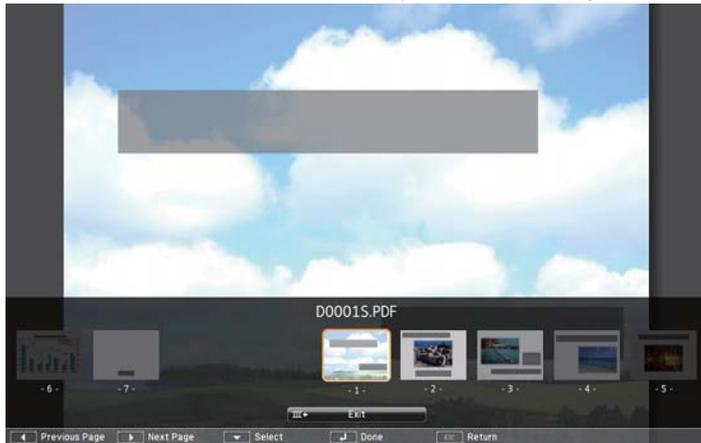


You can perform the following operations while a PDF file is displayed.

- Page Up/Down
While a page is displayed at full screen size, press the [⏪] or [⏩] button to go to the previous or next page.

- Selecting a page

Press the [Esc] button to display the select page menu.



Select the page you want to project using the [⏪] or [⏩] button, and then press the [↵] button to display the selected page.

If you press the [Esc] button while the select page menu is displayed, the menu closes.

- Expanding a page

While a page is displayed at full screen size, press the [↵] button to expand the image.

Portrait pages are expanded horizontally to fit the width of the screen, and landscape pages are expanded vertically to fit the height of the screen.

While a page is displayed at expanded size, press the [↵] button to return to standard full screen size display.

- Scrolling a page

While a page is displayed at expanded size, press the [⏪], [⏩], [⏴], or [⏵] button to scroll the page.

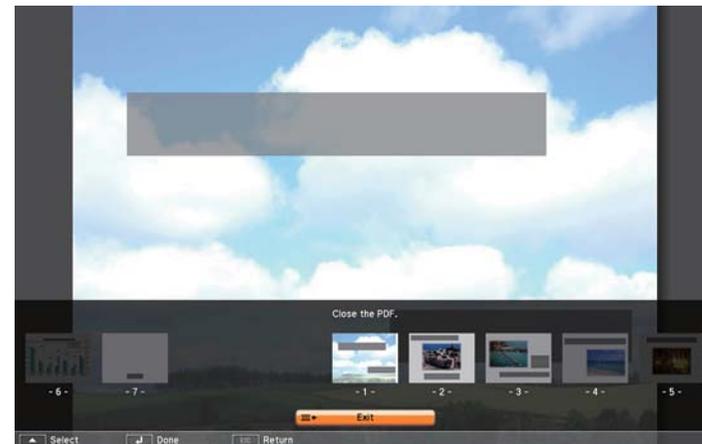
- Rotating a page

While a page is displayed at full screen size, press the [⏴] or [⏵] button to rotate all pages in the PDF by 90 degrees.

Closing PDF File Display

- 1 Press the [Esc] button while a PDF file is being displayed. The select page menu is displayed.

- 2 Press the [⏴] or [⏵] button to select **Exit**.



- 3 Press the [↵] button.

The PDF file being displayed closes and the file select screen is displayed.



The following operations cannot be performed while viewing a PDF in PC Free.

- Releasing a password
- Displaying e-signatures
- Displaying JPEG2000 images
- Displaying transparent effects
- Playing multi media contents
- Displaying 3D artwork
- Displaying comments

Image and movie files stored on a USB storage device and image files on a digital camera can be projected using PC Free by either of the following two methods.

- Projecting selected image and movie files
This is a function for projecting single files.
- Projecting all image and movie files in a folder in sequence (Slideshow)
This is a function for projecting the file contents of a folder in order, one file at a time.

Attention

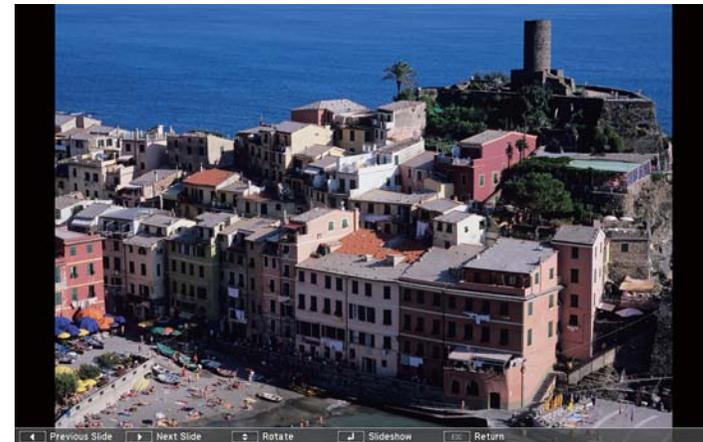
The USB storage device is accessed frequently when playing back movie files. Do not remove the USB storage device while projecting, or PC Free may not operate correctly.

Projecting Movies and Images

- 1** Start PC Free.
☛ "Starting and Closing PC Free" p.7
The file list screen is displayed.
- 2** Press the [⏪], [⏩], [⏴], or [⏵] button to select the file you want to project.



- 3** Press the [↵] button.
The image is displayed or the movie is played back.



Images can be rotated while projecting image files.
☛ "Rotating the Image" p.9

- 4** To finish projecting, perform one of the following operations.
 - Projecting an image: Press the [Esc] button.

- Projecting a movie: Press the [Esc] button to display the message screen, select **Exit**, and then press the [↵] button.

When projection is finished, you are returned to the file list screen.

Operations while projecting a movie

While projecting a movie, press the [⏩] or [⏪] button to perform operations such as fast-forward, rewind and so on. Each time the [⏩] or [⏪] button is pressed, the operation changes.

The current operation selected is displayed at the bottom of the screen.



[⏩] / [⏪] (Fast-forward/Rewind)	Press the [⏩] button to fast-forward a movie. Press the [⏪] button to rewind a movie. The fast-forward or rewind speed is increased by a factor of two each time the [⏩] or [⏪] button is pressed.
[⏮] / [⏭] (Jump approx. 15 seconds)	Press the [⏭] button to jump forward by approximately 15 seconds. Press the [⏮] button to jump backward by approximately 15 seconds.
[⏮] / [⏭] (Jump approx. 60 seconds)	Press the [⏭] button to jump forward by approximately 60 seconds. Press the [⏮] button to jump backward by approximately 60 seconds.

[⏮] / [⏭] (Jump approx. 600 seconds)	Press the [⏭] button to jump forward by approximately 600 seconds. Press the [⏮] button to jump backward by approximately 600 seconds.
[⏪] / [⏩] (Change slides)	Move to the previous or next file while playing a slideshow.

Projecting Image Files in a Folder in Sequence (Slideshow)

You can project the image and movie files in a folder in sequence, one at a time. This function is called Slideshow. Use the following procedure to run Slideshow.



You can set display conditions, such as projecting repeatedly and adding display effects while switching between files. To change movie and image files automatically when you run Slideshow, set the **Screen Switching Time** in the Option menu to anything other than **No**. The default setting is **No**.

☞ "Operation setting for slideshow" [p.18](#)

- 1** Start PC Free.
 ☞ "Starting and Closing PC Free" [p.7](#)
 The file list screen is displayed.
- 2** Use the [⏩], [⏪], [⏮], or [⏭] button to position the cursor over the folder for the Slideshow that you want to run, and then press the [↵] button.

3 Select **Slideshow** at the bottom right of the file list screen, and then press the [**↵**] button.

The Slideshow starts and the image and movie files in the folder are automatically projected in sequence, one at a time.

When the last file is projected, the file list screen is automatically displayed again. If you set **Continuous Play** to **On** in the Option screen, projection starts again from the beginning when it reaches the end.

☛ "Operation setting for slideshow" p.18

You can proceed to the next screen, return to the previous screen, or stop playback while projecting a Slideshow.

☛ "Operations While Playing Back Scenarios" p.11



- If **Screen Switching Time** on the Option screen is set to **No**, files do not change automatically even if you select Slideshow. Press the [**⏪**] button, the [**↵**] button, or the [**⏩**] button to display the next file.
- To end slideshow playback, press the [Esc] button. On the message screen displayed, select **Exit**, and then press the [**↵**] button.

Operation setting for slideshow

You can set the file display order and slideshow operations on the Option screen.

1 Select **Option** at the bottom of the file list screen, and then press the [**↵**] button.

2 When the Option menu is displayed, set each of the items. Select any of the options as necessary and press the [**↵**] button to enable settings.

Details of the items are given below.



Display Order	You can set the order of the files to be displayed. You can select to sort the files into either Name Order or Date Order .
Sort Order	You can select to sort the files In Ascending or In Descending order.
Continuous Play	You can set whether to repeat the Slideshow.
Screen Switching Time	You can set the time before a file switches to the next file in Slideshow. You can set a time between No (0) and 60 Seconds. When you set No , auto play is disabled.
Effect	You can set the screen effects when changing slides.

- 3 When you have finished making settings, use the [, [, [, or [] button to position the cursor over **OK**, and then press the [] button.

The settings are applied.

If you do not want to apply the settings, position the cursor on **Cancel**, and then press the [] button.



Appendix

See the following if you have any problems playing back a scenario.

☛ [EasyMP Slide Converter Operation Guide](#)

Cannot playback or display files in PC Free.

Check	Remedy
Are you trying to playback a file in a format that is not supported by PC Free?	For information on files that can be played back in PC Free ☛ "Specifications for Files that can be Projected Using PC Free" p.4
Are you using a USB storage device that incorporates security functions?	Some USB storage devices that incorporate security and some other USB storage devices may not be compatible with this projector. Try saving the file in a different USB storage device.
Are you using a USB hard disk or USB card reader?	Some commercially available USB hard disks or USB card readers may not be compatible.

The slide cannot be changed.

Check	Remedy
Is the operation setting for Slideshow set correctly? (Only when performing Slideshow)	If the Screen Switching Time setting in the Option menu is set to No , the slides must be changed manually one at a time. If you want to change the slides automatically, change the setting to anything other than No . ☛ "Operation setting for slideshow" p.18
Is the file set to automatically change the slides on PowerPoint? (Only when projecting scenarios)	To change the slides automatically, set the PowerPoint file to automatically change the slides before converting the file to a scenario. ☛ EasyMP Slide Converter Operation Guide

I want to hide the menus at the top and bottom of the screen.

Check	Remedy
Are you projecting an individual image file?	Menus are not displayed if a Slideshow is being performed. ☛ "Projecting Image Files in a Folder in Sequence (Slideshow)" p.17 If you do not want the slides to change automatically, set the Screen Switching Time setting in the Option menu to No . ☛ "Operation setting for slideshow" p.18



Image file names are not displayed correctly on the file list screen.

Check	Remedy
Is the file name too long?	The file name can be up to 8 characters long. For file names longer than this, the middle of the name is omitted to shorten the name to 8 characters.
Are there any 2-byte characters in the file name?	Only alphanumeric characters and symbols can be used in file names. Any other characters are replaced with a question mark (?).

Editing Scenario (SIT) Files

For SIT files converted using **Perform simplified conversion** on EasyMP Slide Converter, you can change the order in which images are projected, and set whether or not to display individual images.

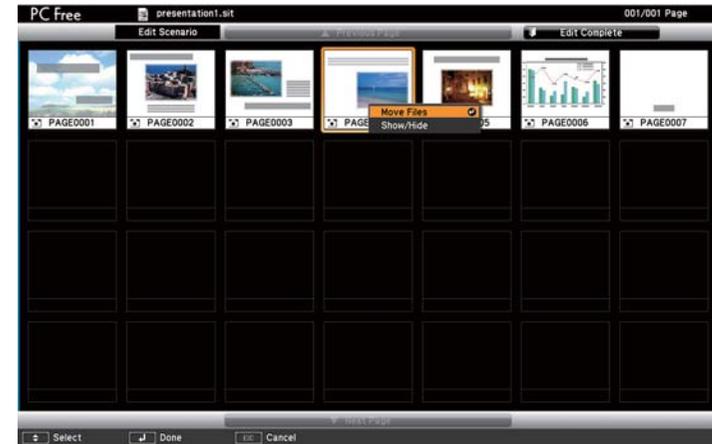


- You cannot edit FSE files.
- Edits apply only until PC Free is closed.

- 1 Press the [⏪], [⏩], [⏴], or [⏵] button to select the SIT file, and then press the [Esc] button.
- 2 Select **Edit Scenario** from the menu displayed, then press the [↵] button.



- 3 Position the cursor on the slide you want to edit, and then press the [Esc] button.
The sub menu is displayed.
Select **Move Files** to change the order of the slides, or **Show/Hide** to show or hide files, then press the [↵] button.



If you select **Move Files**, go to step 4.
If you select **Show/Hide**, go to step 5.

- 4 Move the cursor to the position where you want to move the selected slide, and then press the [↵] button.



- 5 When you finish editing, position the cursor on **Edit Complete** at the top of the screen, and then press the [] button.

The edited content can only be accessed while the USB storage device is connected to the projector.

Registering a Digital Certificate to the Projector

You can install the following certificates in the projector: Client Certificate and CA certificate for wireless LAN security settings, and Web Server Certificate for the Secure HTTP function.

This section describes the method for using PC Free to register a digital certificate that has been saved in a USB storage device, to the projector.



You can also register digital certificates over a network. However, if you register a certificate from both a USB storage device and the network, it may not be installed correctly.

Digital certificates that can be registered

Type	Extension
Client Certificate	.pfx
Web Server Certificate	.p12
CA certificate	.cer .der .pem

See the following for more details on supported certificates.

 [User's Guide](#)

Registering a Client Certificate or a Web Server Certificate

- 1 Connect the USB storage device containing the digital certificate to the projector and start PC Free.

 "Starting and Closing PC Free" [p.7](#)

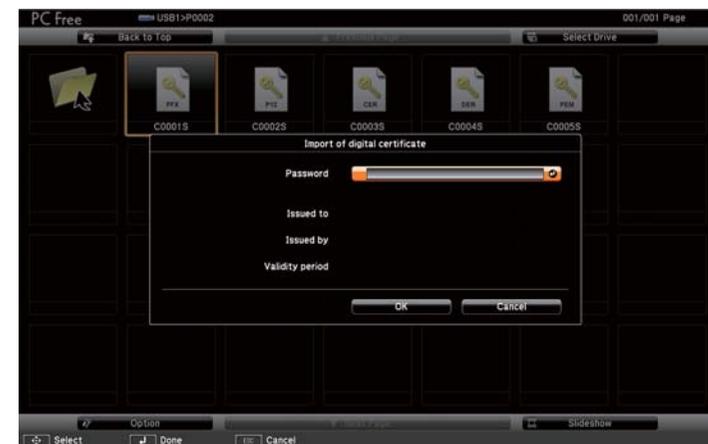
The file list screen is displayed.

- 2 Press the [], [], [], or [] button to select the icon for the certificate you want to register, and then press the [] button.
- 3 Select **Client Certificate** or **Web Server Certificate**, and then press the [] button.



- 4 Enter the password using the soft keyboard. (You can enter up to 32 single-byte alphanumeric characters)

 [User's Guide](#)



- 5 When information on the certificate is displayed, check that the content is correct, and then position the cursor over **OK**, and then press the [**↵**] button.

When the message "Digital certificate imported" is displayed, registration is complete.

Registering a CA certificate

- 1 Connect the USB storage device containing the digital certificate to the projector and start PC Free.

☛ "Starting and Closing PC Free" p.7

The file list screen is displayed.

- 2 Press the [**⏪**], [**⏩**], [**⏴**], or [**⏵**] button to select the CA certificate icon, and then press the [**↵**] button.



- 3 When information on the certificate is displayed, check that the content is correct, and then position the cursor over **OK**, and then press the [**↵**] button.

When the message "CA certificate obtained." is displayed, registration is complete.

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A		M	
avi	5	Move files	23
B		mp4	5
Back to top	9	mpg	5
bmp	4	O	
C		Option	18
CA certificate	26	P	
Client Certificate	25	pdf	5
Continuous play	18	png	5
D		S	
Digital certificate	25	Screen switching time	18
Display order	18	Select Drive	8
E		Show/Hide	23
Edit complete	24	sit	4
Edit Scenario	23	Slideshow	17
Effect	18	W	
F		Web Server Certificate	25
File list screen	7	wmv	5
fse	4		
G			
gif	4		
J			
jpg	4		