PlayStation®Vita Movie Data Creating Guidelines

PlayStation®Vita Programmer Tool Runtime Library Release 3.50

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1 Overview

PlayStation®Vita can play back various video and audio formats. You can use a video production application to create movie data that can be handled by the PlayStation®Vita.

The following is the workflow for creating movie data using a video production application.

Figure 1 Basic Workflow

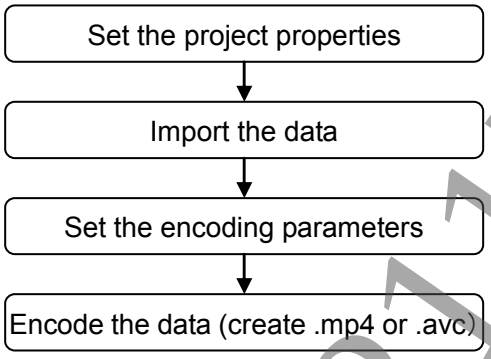
This document describes the basic procedure for creating movie data using a video production application with Vegas Pro as an example.

2 Encoding Procedure

Encoding Procedure

The encoding process using Vegas Pro involves setting the project properties, importing the data file, and setting the encoding parameters. The following is the encoding procedure.

Figure 2 Encoding Procedure Using Vegas Pro



Set the Project Properties

First, set the project properties. Start Vegas Pro, click the **Properties** button on **Toolbar** displayed at the top left of the main window, and then set the project properties on the **Project Properties** dialog box.

The following diagram is an example of encoding at 960 × 544, 29.97p.

Figure 3 Example of Project Properties Settings (Video)

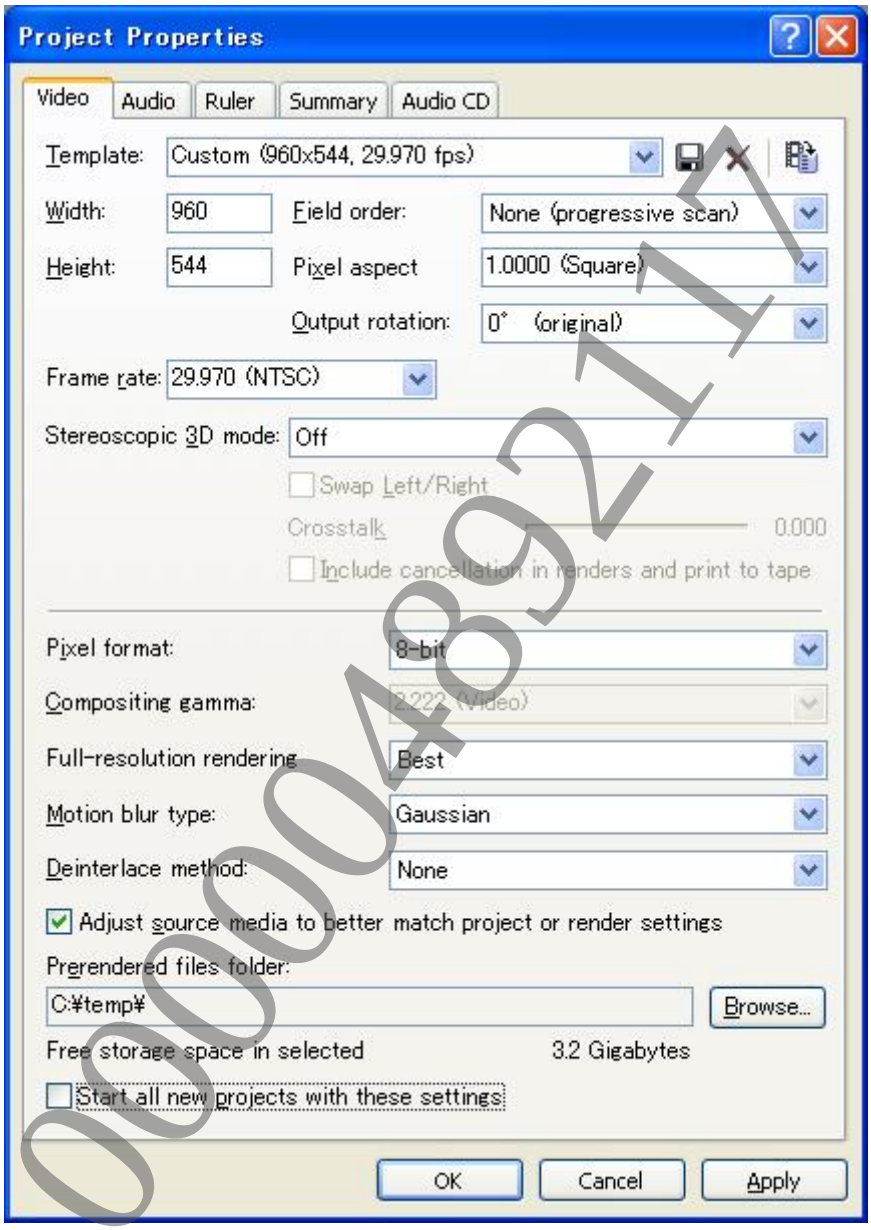
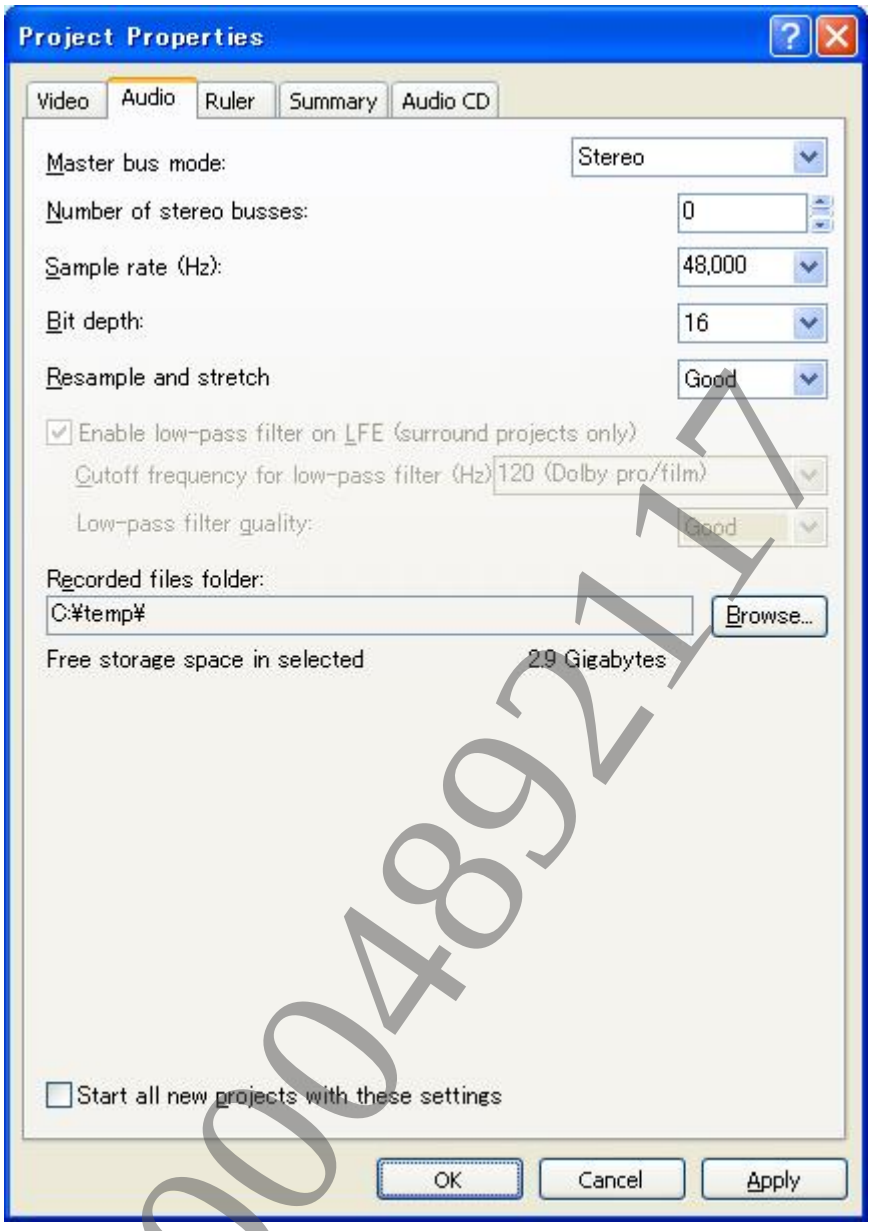


Figure 4 Example of Project Properties Settings (Audio)



Import the Data

Drag and drop the data to **Timeline(Track View)** at the bottom of the main window. See the manual of Vegas Pro for information on operating tracks.

Set the Encoding Parameters

The following are the recommended values and the parameters of video and audio data that can be used with the PlayStation®Vita.

Sony AVC

Select **Render As…** from the **File** menu, and select **Sony AVC (*.mp4, *.m2ts, *.avc)** from the displayed **File Type** dropdown list. Next, click the **Custom…** button, and then set the encoding parameters on the **Custom Settings** dialog box.

Video

Parameter	Restrictions
Video Format	AVC
Frame size	Up to 960x544 pixels frame size (in 16-pixel units, horizontal: 64 to 1920, vertical: 64 to 1088)
Profile	Main
Entropy coding	CABAC or CAVLC
Frame rate	29.970 (NTSC)
Field order	None (progressive scan)
Pixel aspect ratio	1.0000
Bit rate	4 to 6Mbps recommended (up to 14Mbps)
Encode mode	Automatic

Audio

Parameter	Restrictions
Audio Format	AAC
Sample Rate	48 kHz
Bit rate	128, 256 kbps
Audio coding mode	Stereo

System

Parameter	Restrictions
Format	MP4 file format (.mp4) or Video elementary stream (.avc)

3 Reference Materials

mp4 file format

- ISO/IEC 14496-1:2010
  Information technology -- Coding of audio-visual objects -- Part 1: Systems
- ISO/IEC 14496-12:2008
  Information technology -- Coding of audio-visual objects -- Part 12: ISO base media file format
- ISO/IEC 14496-15:2010
  Information technology -- Coding of audio-visual objects -- Part 15: Advanced Video Coding (AVC) file format

Video Codec

- ISO/IEC 14496-10:2010
  Information technology -- Coding of audio-visual objects -- Part 10: Advanced Video Coding

Audio Codec

- ISO/IEC 14496-3:2009
  Information technology -- Coding of audio-visual objects -- Part 3: Audio

(The above reference destination has been confirmed as of August 3, 2011. Note that pages may have been subsequently moved or its contents modified.)