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Application Note

Mini - Premiere Pro Capture

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1 Preface

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Version	Date	Comment	By
1.0	2005.12.22	Draft Release	S. Ackerman
1.1	2005.12.22	Initial Release	S. Ackerman
1.2			
1.3			
1.4			

References:

2 Overview

This Application Note describes how to adjust the Capture Setting in Adobe Premiere Pro when using the Teranex Mini In-Line.

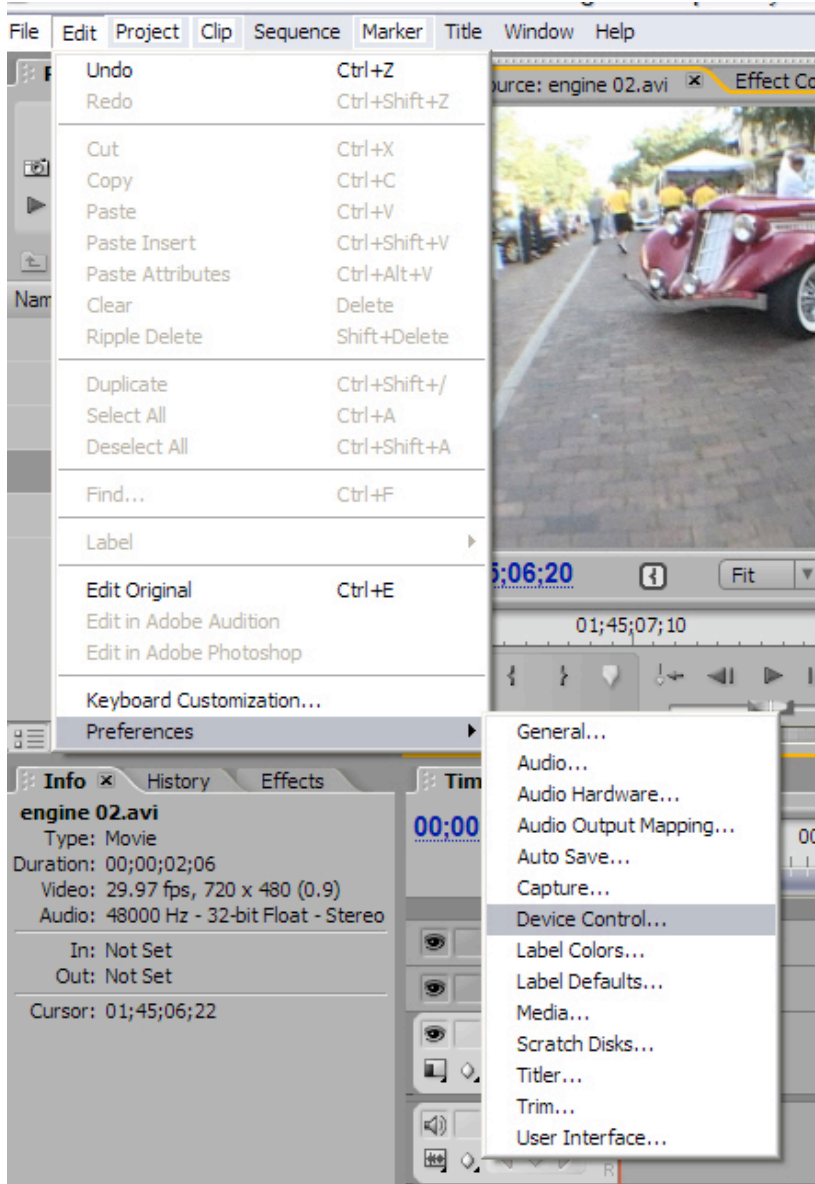
When the Teranex Mini is used as a format converter, the video signal is delayed four frames to accommodate the processing. The Mini can be placed in-line between the VTR output and the NLE input to enable real-time up/down/cross-conversion as part of the clip capture step of the editing process. The Mini uses the Serial Digital Interface (SDI) to carry the video signal with embedded audio. If your VTR and capture card support embedded audio on the SDI stream, then both audio and video will be captured in sync by the NLE. Although audio and video are delayed together, most NLE's typically receive their timecode information over the RS-422 device control port. This is not delayed by Mini, which means that use of the Mini will place the audio/video signal four frames out-of-sync with the timecode signal for that tape.

Many modern NLE's let you set up custom device control settings to compensate for this delay. The follow description will instruct you how to modify the device control settings for Adobe Premiere Pro.

3 Procedure

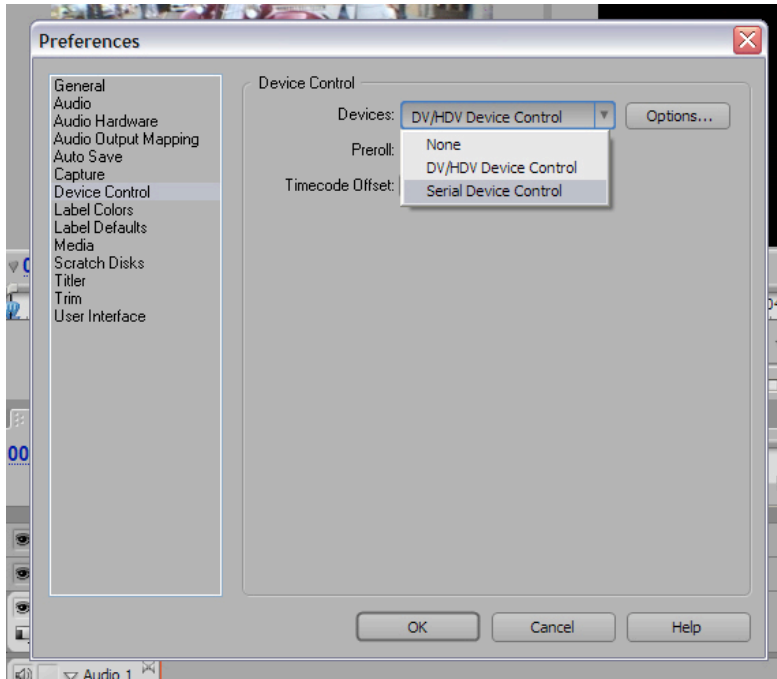
3.1 Device Control Preferences

Open the Device Control Preferences setting found under the Edit menu item.



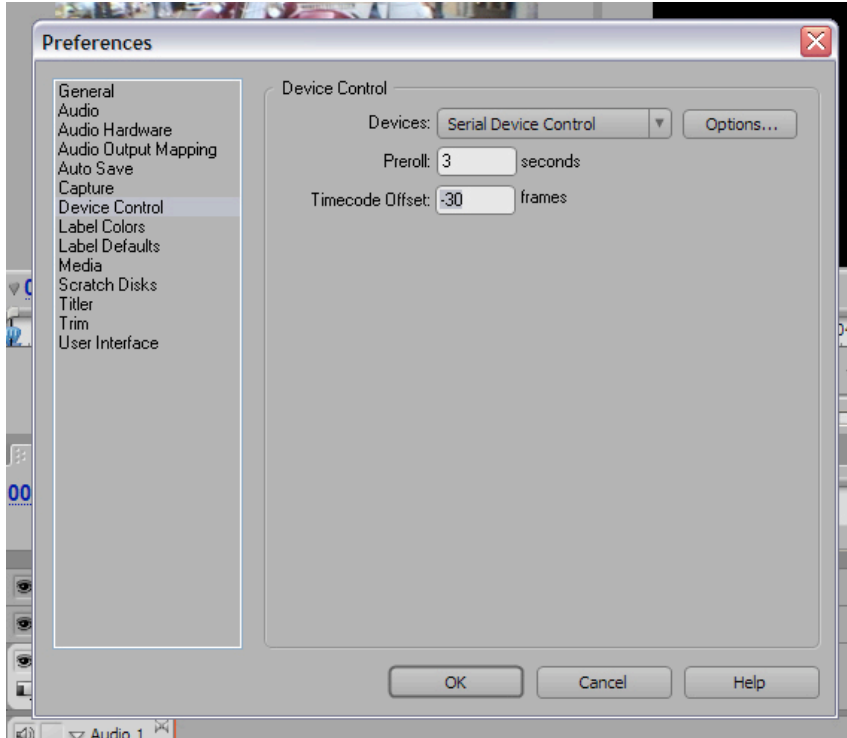
3.1.1 Select the Device

Select the proper device within the Device Control preferences. If you are controlling the deck with RS-422, this will be one of the serial device options in the Devices drop-down menu. Some nonlinear edit systems that operate with Premiere Pro as the controlling software application, such as Matrox Axio, will load specific capture utilities with their own device drivers. These will be listed as a choice in the drop-down menu. Select the correct device for your system.



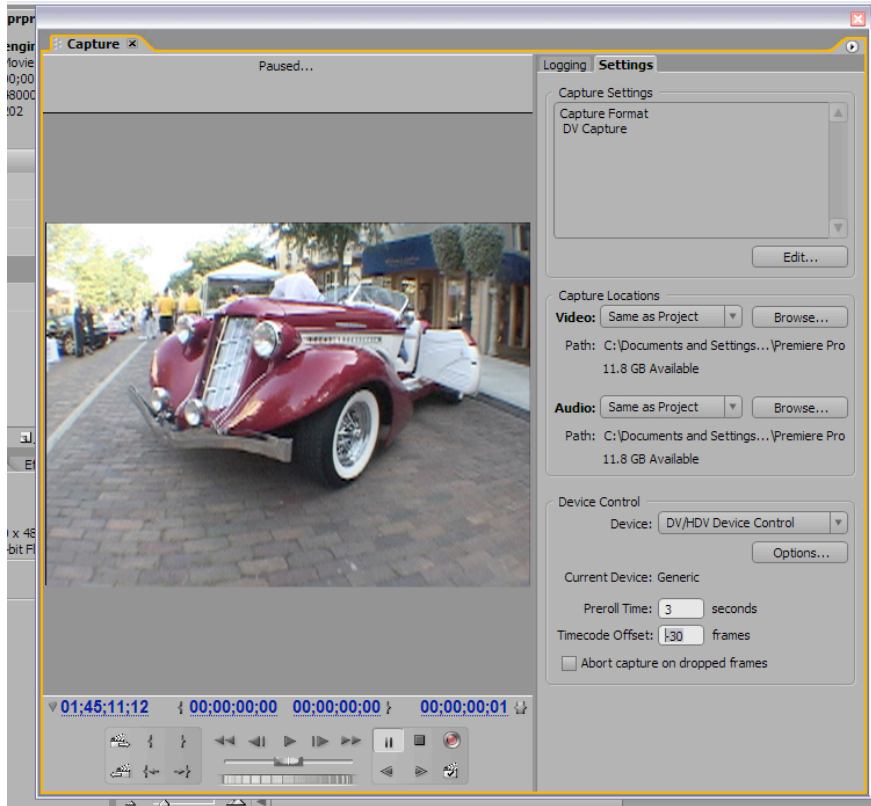
3.1.2 Set the Timecode Offset

In the Timecode Offset field, enter the correct offset value to compensate for the delay through the Teranex Mini. This will typically be a four-frame offset, refer to Section 4 for a table of delay values.



3.2 Capture Utility

As an alternative to changing the Device Control Preferences, you may also change the timecode offset inside the Capture utility. Simply select Capture for the Capture tool and window to open. Click on the Settings tab and make sure you have selected the proper device in the Device Control drop-down menu. Highlight the Timecode Offset field and enter the correct offset value.



Note that it is always a good idea to test your settings. To do this, select the digital output connector on the VTR that displays the timecode character information and turn the character display on. Capture a short clip with visual timecode using the Mini. If your Capture Offset setting is correct, then the clip timecode that is displayed in the Adobe Premiere Pro clip monitor window will match the timecode number that you see on the screen in the video. If they don't match, then edit your device control preset by the necessary amount and test again.

4 Processing Delay's

The following delay values are valid for software/firmware release 1.11.0.512 and later

Input	Output	Delay
480i59.94	480i59.94	4
480i59.94	720p59.94	4
480i59.94	1080i59.94	4
576i50	576i50	4
576i50	720p50	4
576i50	1080i50	4
720p50	576i50	5
720p50	720p50	5
720p50	1080i50	5
720p59.94	480i59.94	5
720p59.94	720p59.94	5
720p59.94	1080i59.94	5
1080i50	576i50	4
1080i50	720p50	4
1080i50	1080i50	4
1080i59.94	480i59.94	4
1080i59.94	720p59.94	4
1080i59.94	1080i59.94	4