ADOBE® PREMIERE® PRO 1.5.1 README

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This file contains late-breaking product information, updates to the Adobe Premiere Pro 1.5 documentation and troubleshooting tips. Please print this document for future reference. The Help menu in Adobe Premiere Pro contains the entire User Guide. For further troubleshooting and information, see the User Guide, online Help, or visit the Adobe Premiere Pro support section online at http://www.adobe.com/premiere .

This ReadMe is divided into the following sections:

INSTALLATION INSTRUCTIONS

General installation notes

Before you can use Adobe Premiere Pro 1.5.1, you must install Adobe Premiere Pro 1.5. For information about installation and activation of Adobe Premiere Pro 1.5, please refer to the ReadMe file contained on the Adobe Premiere Pro 1.5 installation disk. Adobe Premiere Pro 1.5 must not be running while the 1.5.1 update is being installed.

To take advantage of the new HDV features that are offered in Adobe Premiere Pro 1.5.1, make sure that your computer meets the minimum system requirements listed in this ReadMe.

Installing the Adobe Premiere Pro 1.5.1 Update

After downloading Adobe Premiere Pro 1.5.1 Update from the Web, the installer should start automatically when the download completes. If it does not, double-click Setup.exe in the Adobe Premiere Pro folder downloaded for Adobe Premiere Pro 1.5.1. Follow the on-screen instructions to install the application.

Do not cancel the update process once it has begun. Please allow it to complete. Canceling prior to completion may result in an incomplete and non-working set up.

Uninstalling the Adobe Premiere Pro 1.5.1 Update

As an update you cannot uninstall the Adobe Premiere Pro 1.5.1 without uninstalling Adobe Premiere Pro 1.5 in its entirety. In order to ensure a clean uninstall and re-installation should you ever need to uninstall and re-install Adobe Premiere Pro please follow these steps.

1. Uninstall Premiere Pro
2. Reboot system.
3. Go to C:\Program Files\Adobe and delete the Premiere Pro 1.5 folder.
4. Go to C:\Documents and Settings\<logged in user>\Application Data\Adobe and delete the Premiere Pro folder.
5. Empty Recycle Bin.
6. Install Premiere Pro 1.5.
7. Install the Adobe Premiere Pro 1.5.1 update.
8. Reboot system.

For information about uninstalling Adobe Premiere Pro 1.5, please refer to the ReadMe file contained on the Adobe Premiere Pro 1.5 installation disk.

Installing HDV Camera Drivers

Before starting Adobe Premiere Pro 1.5.1, make sure that the proper HDV camera drivers have been installed on your system. To do this, install Windows XP Service Pack 2 and then connect your HDV camera to your computer. Windows will then automatically detect and install the correct drivers for your HDV camera. Be aware that most HDV cameras include support for DV mode. It is important that your HDV camera is in HDV mode before it is connected to your computer, otherwise the wrong drivers may be loaded. If the HDV Camera is connected to your computer and the drivers have installed correctly you will find an 'AV/C Tape Device driver' listed in the 'Device Manager' under 'Sound Video and Game Controllers'. Please consult your HDV camera manual for any other installation questions and/or issues.

HDV SUPPORT

Adobe Premiere Pro 1.5.1 includes editing support for content shot with HDV cameras. This section provides information about the new HDV features of Adobe Premiere Pro, and highlights those parts of the HDV editing workflow that are different from the standard DV editing workflow of Adobe Premiere Pro. Please refer to your primary Adobe Premiere Pro User Guide for instructions on features not covered here.

HDV Introduction

What is HDV? This is a common question among video enthusiasts and professionals alike. Often people confuse the terms HDV and HDTV. While they are related, they are not the same. Below are the basic definitions of each:

HDTV – The standards adopted by various government and private organizations that define resolutions, frame rates, aspect ratios, and other standards for High Definition television broadcasts.

HDV – The format established by Sony, JVC, Sharp, and Canon for creating a standardized recording format that allows them to provide affordable, high definition video gear.

What is the HDV format? For simplicity's sake, HDV can be explained as a recording format that allows High Definition video to be recorded on a conventional DV cassette tape using MPEG2 compression.

While MPEG2 is a very good distribution format for HDV video, it is not a very efficient editing format. Due to the complexities of editing HDV in its native MPEG2 format, Adobe has chosen to capture and edit HDV content with the CineForm Intermediate codec which is an extremely high-quality Wavelet-based compression codec.

HDV/DV Comparison Chart

Below is a brief overview on the differences between HDV and DV video formats and their workflows within Adobe Premiere Pro.

Feature	HDV	DV
Formats	1280x720p30 1440x1080i30[1] 1440x1080i25[1]	720x480i30[2] 720x576i25[2]
Compression (on tape)	MPEG2	DV
Bit rate (on tape)	20 Mb/s constant in 720p 25 Mb/s constant in 1080i	25 Mb/s constant
Compression (on disk)	CineForm Intermediate®	DV
Bit rate (on disk)	60 - 120 Mb/s variable	25 Mb/s constant
Capture	Capture MPEG2 footage from tape and convert/save as CineForm Intermediate® AVI Files on disk	Capture DV footage from tape and save as DV AVI Files on disk
Export To Tape	Encode MPEG, then export	Encode DV, then export
External Monitor Support	Dual Output Graphics card[3]	3rd Party DV Hardware

[1]Anamorphic Format [2]Anamorphic and Non-Anamorphic Format [3]Please see the list of Adobe tested graphics cards in the Third Party Compatibility section of this document

HDV Project Presets

After Adobe Premiere Pro 1.5.1 is started, click on the 'New Project' button. In the list of Available Presets is a new HDV folder which includes three new presets: HDV 1080i – 25.00, HDV 1080i – 29.97, and HDV 720p – 29.97. Please note that HDV 1080i video is an Anamorphic format which stores video at a 1440x1080 resolution but displays video at a 1920x1080 resolution. In order to support HDV 1080i video, a 'HD Anamorphic 1080 (1.333)' pixel aspect ratio has been added to Adobe Premiere Pro.

To begin a new HDV Project, choose the preset with the resolution and frame rate that matches the HDV mode of the camera.

Examples:

For a JVC JY-HD10U Camera select the 'HDV – 720p – 29.97' preset
For a Sony HDR-FX1 Camera select the 'HDV – 1080i – 29.97' preset
For a Sony HDR-FX1E Camera select the 'HDV – 1080i – 25.00' preset

HDV Capture and Device Control

Before attempting to capture from a HDV Camera, please make sure that the following are set correctly:

- 'Device Control' is set to 'HDV Device Control'
- 'Capture Format' in Project Settings is set to 'HDV Capture'
- The HDV Camera drivers have been properly installed. Please see the beginning of the ReadMe for installation instructions.
- Confirm that the HDV Camera is on and connected by FireWire to the computer and that the HDV Camera mode matches the Adobe Premiere Pro HDV project settings.
- Timecode breaks on the tape can cause errors in the batch capture process as they cause the timecode to reset at the break. It is recommended that you pre-stripe your tapes if you will be using them for batch capture to avoid this issue.
- To properly pre-stripe your tapes, please record to them with the HDV format device in the camera mode. Pre-stripping tapes by recording to them in VTR mode does not properly pre-stripe the tape and blank sections will not be recognized.

The capture process in HDV is somewhat different than the capture process in DV. In capturing from a HDV device, Adobe Premiere Pro transcodes the native MPEG2 data coming from the HDV device to a CineForm HDV format AVI File. This transcode process is not real-time but takes place in the background. This background process will be close to real time on higher end systems. Systems closer to the minimum system requirements may require an additional 30-50% time for encoding. After stopping Capture, a 'Waiting for Transcode' window will appear if any further transcoding is still needed. When transcoding has completed, the 'Waiting for Transcode' window will disappear and the captured clip will appear within the Project Bin. If the user chooses to stop the transcode process instead of waiting for it to complete, the portion of the captured clip that had been successfully transcoded up to that point will be added to the bin.

Please note that the following **features are not supported** within HDV Capture: Abort on Dropped Frames, Capturing Video and Audio to separate files, Capturing a Still Frame, and Video/Audio Preview while Capturing.

Please note that the following **features are not supported** within HDV Device Control: Next Scene, Previous Scene, Slow Play, Slow Reverse, Shuttle Slow Pay, and Shuttle Slow Reverse.

Please see the **HDV Capture and Device Control Known Issues** and **HDV Camera Known Issues** sections for further information.

HDV Playback

Before beginning your HDV editing session, review the HDV Playback Settings. Below is a brief description of each setting and its function:

- Playback Settings
  - Enable YUV Playback **(Default: Enabled)** – This will enable the YUV to RGB conversion for video display to be hardware accelerated by the graphics card's GPU, rather than performing the conversion in software via the CPU. Generally, enabling this feature will allow better playback performance.
- Desktop Display Settings
  - Use GDI – This mode should not be used unless playback problems are occurring in DirectX mode. GDI mode is analogous to 'Safe Mode' for video playback. Using this mode will help troubleshoot playback problems, at the cost of playback performance.
  - Use DirectX **(Default)** – This mode will use the DirectX features of your graphics card to playback video. This setting will maximize playback performance.
  - Enable External Monitor – When 'Use DirectX' is selected, enabling this mode will enable video to be output to a secondary monitor when your dual output graphics card is configured correctly. Please see the third party compatibility section below for more details.
  - To reduce the possibility of video 'tearing' during playback, set the "Screen refresh rate" of your display monitors to as close to a multiple of your timeline fps. For example, in a HDV 1080i- 29.97 project you would set your refresh rate to 60 Hertz.
- External Monitor Options
  - Video Scale Mode **(Only used if External Monitor Support is enabled)**
    - 1:1 **(Default)**
    - Aspect Ratio
    - Full Scan
- Export to Tape Render Settings
  - Save Transcode File **(Default: Enabled)** – This setting allows the user to save the MPEG2 transport stream file that is created by the 'Export to Tape' function. See the HDV Export to Tape section below.
  - Speed vs. Quality – This setting allows you to choose the quality of the MPEG2 transport stream that is created before going out to tape. The higher the quality, the slower the encoding process will be.

Once you have properly configured the HDV Playback Settings, you can begin your HDV editing session. Editing within a HDV Project is virtually identical to editing within a DV Project. The most notable differences are:

- HDV Projects will not send video thru FireWire to an External Monitor during Playback. Adobe Premiere Pro 1.5.1 uses a digital intermediary codec for editing HDV. This data is not supported by the HDV devices for display during playback.

- Effects and Scopes which play in real time or near real time in DV mode may not playback with same performance in HDV mode due to the increased resolution and bandwidth requirements of HDV.

Only CineForm HDV format AVI Files which have the same resolution, PAR, and fps as the HDV Project you are in will be played in real time. All other files will be flagged as non-real time. Non-real time clips that are played within the Project Bin Window or the Source Monitor Window will not be played to the External Monitor if it is enabled.

To enable faster performance on playback Adobe Premiere Pro 1.5.1 uses a lower resolution overlay for display in the Adobe Premiere Pro application interface. Due to this optimization some filters (i.e. brush stroke) may have a different appearance on the preview than the final rendered segment. It is recommended that a small rendered section be used to verify the final look meets the desired outcome.

Please note that the following **features are not supported** within HDV Playback: Monitor Zoom, Video Output thru FireWire during playback.

Please see the **HDV Playback Known Issues** section for further information.

HDV Export to Movie

To Export to a HDV Movie, please choose the 'CineForm HDV format AVI' File type in the General tab of the Export Movie Settings window. From the Compressor Options in the Video tab, select the desired HDV video format to encode into. You will be able to choose from five different HDV video formats; however the 576p and 480p formats have not yet been tested and certified by Adobe.

Before beginning the export, please make sure that the selected Pixel Aspect Ratio matches to the desired HDV video format: for 1080i 25/29.97 use 'HD Anamorphic 1080 (1.333)', for 720p 29.97 use 'Square Pixels (1.0)', for 480p 59.94 use 'D1/DV NTSC Widescreen 16:9 (1.2)', and for 576p 50.00 use 'D1/DV PAL Widescreen 16:9 (1.422)'.

Please note that the following **features are not supported** within HDV Export to Movie: Embedding Project Options, Setting Quality, Setting Data Rate, and Setting KeyFrames.

Please see the **HDV Export to Movie Known Issues** section for further information.

HDV Export to Tape

Before attempting to Export to a HDV Camera, please make sure that the following are set correctly:

- 'Device Control' is set to 'HDV Device Control'
- The HDV Device drivers have been properly installed. Please see 'Installation Instructions' in the beginning of the ReadMe for details.
- Confirm that the HDV Device is on and connected by FireWire to the computer and that the HDV Device mode matches the Adobe Premiere Pro HDV project settings.

- Confirm that a tape is loaded into the HDV Device and that the tape is not 'write protected'.

After your HDV Device has been properly setup, you can choose 'Export to Tape' within Premiere Pro. The 'HDV Export to Tape' window has been modeled after the 'DV Export to Tape' window but with changes. Since Adobe Premiere Pro edits HDV with the CineForm Intermediate codec and not in native HDV MPEG2, the timeline must be transcoded to a HDV MPEG2 Transport Stream for delivery back to tape on an HDV device. Due to the long-GOP MPEG2 format of HDV devices which contain partial frames, users cannot perform frame accurate export tape, assemble at timecode or insert edits and can only export to the timecode that the HDV Device is currently on.

- Check 'Activate Recording Device' to enable the HDV device for Recording and then click the 'Render and Record' button to initiate the MPEG2 transcoding process.
- A new window titled 'HDV Transcode Status' will open. This window will monitor the transcoding status of converting the timeline into a MPEG2 transport stream file that meets the HDV requirements for being recorded to tape. During the transcoding process, the current frame being transcoded will be displayed on the Premiere Pro Program Monitor Window.

  IMPORTANT: If you Cancel or Close this window then the Export to Tape process will be canceled.
- Once the transcode process is complete, a 'Save As' window will open allowing you to save the file if you like. (This 'Save As' window can be disabled by disabling the 'Save Transcode File' setting in the project playback settings) Clicking 'Cancel' will cancel the file save, but will not cancel the export to tape.
- After the file save has been completed or cancelled, your timeline will play out real-time to your recording device. Please note that the Premiere Pro Program Monitor Window will display black during the actual export.

Before beginning a long Export to Tape it is important to make sure that your HDV Device is properly setup and ready to be recorded to. A good way to test if you are properly setup is to perform a short Export to Tape with the 'Activate Recording Device' **unchecked** within the HDV Export to Tape window. This will allow you to test your HDV Device setup without actually recording to the tape. Please be aware that if there are any failures in your HDV Device setup for Export to Tape you may have to repeat the MPEG2 transcoding process.

Please be aware of the following HDV Device specific issues when exporting to tape:

- Current JVC HDV devices will not start recording until they physically detect MPEG2 data coming thru FireWire. So it is recommended for the user to insert 5-10 seconds of black in the beginning of their timeline to ensure that all of their desired video is recorded to tape.
- Current Sony HDV devices will go into Record Standby for approximately 2 seconds before starting to Record. During these 2 seconds, the timeline will already have started to stream the MPEG2 transport stream to tape resulting in the first 2 seconds of video not being recorded to tape. To correct for this, the user should insert 2-4 seconds of black in the beginning of their timeline and increase the Delay movie start time by 200-250 quarter frames.

Please note that the following **features are not supported** with HDV Export to Tape: Assemble/Insert Edits, Preroll, Start and End Timecode and Exporting a previously saved MPEG2 transport stream.

Please see the **HDV Export to Tape Known Issues** and **HDV Camera Known Issues** sections for further information.

KNOWN ISSUES

HDV Capture and Device Control Known Issues

- Adobe Premiere Pro 1.5.1 supports the capture and editing of DV, DVCAM and HDV material.
- When capturing from a tape, please turn scene detect on. Capturing one long file from tape can result in a sync loss between video and audio. Scene detect will break the clip up into the individual scenes and prevent any sync issues.
- The Capture Preview window may go into a bad state with display errors if the capture window is moved around rapidly. User may need to restart the camera and Adobe Premiere Pro to correct the behavior.
- At times, the first fifteen frames of a captured file may contain a few green lines running thru the video.
- At times, captured clips may contain artifacts from errors in either the MPEG2 data on tape or errors in transmission of the MPEG2 data thru FireWire. This is not correctable by Adobe Premiere Pro and may require the clip be captured again. Errors on tape will show consistent errors in the stream, though.
- The timecode in a captured clip may not be accurate. Currently it can be off by up to two frames.
- For Batch and In/Out Capture - Due to the nature of MPEG2, capture will always be initiated on the first I-frame before the requested in point. This will result in extra frames being captured and saved before the desired in point.
- Capturing will be stopped and no further transcoding of the capture will be done if the user attempts to open up any of the Project Settings from the Adobe Premiere Pro Project menu. However, the transcoded file up to the point of the stop will still be added to the Project bin so current work is not lost.
- Preview in the capture window during tape playback is near real-time. At regular intervals frames can be dropped during preview in order to keep up with playback. Capture preview during actual capture is disabled in this version in order to dedicate resources to successful captures.
- When changing playback speeds on the HDV Device (i.e. shuttling), the user may notice artifacts in the Live Capture Preview as the MPEG2 decoding adjusts to the new speed.
- Capturing of a batch list with JVC devices can fail. On JVC devices the playback of video from the device through the Firewire port occasionally can fail due to an error in decoding the MPEG stream within the JVC device. This error can be identified by playback that exhibits only blue in the JVC device LCD screen rather than video. Simply restart the capture to correct.
- When capturing video from tape that is not pre-striped the last scene may not end the capture properly. This is due to the loss of time code tracking. The capture can be manually ended and the file will be usable. Pre-striping your tapes will prevent this from occurring.

- Before filming video, please be sure to add at least 30 seconds of black to the beginning of your tapes to ensure the beginning of the first scene has no pre-roll/camera seek issues.
- Capture from JVC devices can exhibit timecode drift of up to fifteen frames due to MPEG-2 GOP decode errors. The drift on subsequent captures of the same material can be more accurate so recapturing is the suggested workaround.
- It is recommend to only record a single format to tape in the HDV devices. During capture of HDV if the material being captured changes from HDV to either DV or DVCAM (Sony HDR-Z1) the capture will fail.
- When capturing live from the camera there may be a 10 second delay from the time record is selected and recording actually begins.
- Please make the audio and video scratch disks the same. If they are separate there can be an error in creating the Digital Intermediate CineForm file for editing.

HDV Camera Known Issues

Sony HDR-FX1 and HDR-FX1E

- Capture and Export to Tape for HDV 720p is not supported on the Sony HDR-FX1 and HDR-FX1E camcorder through the FireWire connection.
- Step Forward and Jog Forward will not update Capture Monitor Window during Capture Preview due to the nature of Long GOP MPEG-2 data and how the camera decodes it.
- Step Backwards and Jog Backwards will jump back multiple frames and the Capture Monitor Window may update with artifacts during Capture Preview due to the nature of Long GOP MPEG-2 data and how the camera decodes it.
- Go to Inpoint/Go to Outpoint are not frame accurate with these cameras due to how timecode is handled outside of the video bit stream.
- The LCD/Analog Video Output of the Camera may be 6 or 7 frames behind what is currently being output thru FireWire and displayed within the Capture Window of Premiere Pro. This is due to the nature of Long GOP MPEG-2 data and how the camera decodes it.

Sony HDR-Z1U and HDR-Z1E

- Although the Sony HDR-Z1 cameras provide non-drop frame recording options, there is not a preconfigured project preset for this mode in Adobe Premiere Pro 1.5.1. To support non-drop frame modes for editing, please go to the Project drop down menu, Preferences, and select General. This will bring up the Project Setting Dialog. Under the Display Format pull down menu select the Non-Drop Frame Timecode mode that matches your video format.
- Non-drop frame video will still be captured with the Adobe Premiere Pro capture window in drop frame mode. The Files will show their properties as drop frame.

JVC JY-HD10U

- This model does not support 1080i, thus only capture and export to tape for 720p is supported.
- Step Forward and Jog Forward will not update Capture Monitor Window during Capture Preview due to the nature of Long GOP MPEG-2 data and how the camera decodes it.

- Step Backwards and Jog Backwards will not update Capture Monitor Window during Capture Preview due to the nature of Long GOP MPEG-2 data and how the camera decodes it.
- The LCD/Analog Video Output of the Camera may be 8 or more frames behind what is currently being output thru FireWire and displayed within the Capture Window of Premiere Pro. This is due to the nature of Long GOP MPEG-2 data and how the camera decodes it.
- Video captured from JVC HDV format devices may experience a 3 frame A/V sync drift during scrubbing. When editing to specific audio events a compensation for this offset may be required.

HDV Playback Known Issues

- Systems that do not have a Hyper-Threaded Processor or do not have Hyper-Threading enabled may experience lower playback performance including dropping frames during playback of some material.
- On certain graphics cards, the External Monitor Output may become corrupted or lost when switching between Adobe Premiere Pro 1.5.1 and other applications which use the DirectX Overlay Surface.
- Some External Monitors and graphics cards may exhibit frequent tearing of the video during playback. Please consult this ReadMe for recommended External Monitor and graphic card configuration. To reduce the possibility of video 'tearing' during playback, setup up the "Screen refresh rate" of your display monitors to a multiple of your timeline frames-per-second value. For example, in a HDV 1080i- 29.97 project you would set your refresh rate to 60 Hertz.
- When External Monitor is enabled, if any part of an Adobe Premiere Pro 1.5.1 playback window (Bin, Source, or Program Monitor Window) within Adobe Premiere Pro 1.5.1 is moved off of the Primary Monitor, black video will be displayed on the Adobe Premiere Pro 1.5.1 playback window instead of video. However, the correct video will still be displayed on the External Monitor.
- Some graphics cards do not have External Monitor support. Please consult this ReadMe for recommended graphic cards for External Monitor Support.
- Safe Margins may not draw properly on some graphics cards.
- Some audio cards come with their own ASIO drivers. If you are experiencing any playback problems, please switch to your audio cards ASIO drivers to see if the problems are resolved.
- HDV Video Playback support within Adobe Premiere Pro 1.5.1 for systems with more than two monitors is not supported in this release.
- There may be a slight brightness shift in video when External Monitor Support is enabled and the user goes from scrubbing to playing video. This shift is more apparent in NVIDIA graphics cards.
- When using the Custom Settings to create a new Project, the default settings of the HDV Preset are not retained in the Compressor field in the Video Rendering tab.
- Do not enable External Monitor Output on your graphics card while the Capture Window is open. This can result in the external output not being properly activated. If this is set while the capture window is closed the setting will work properly.

HDV Export Known Issues

- When exporting HDV projects for high quality DVD delivery from Adobe Premiere Pro 1.5.1 it is recommended to use the MPEG-2 DVD presets without enabling pre-encoding tasks for scaling. The automatic scaling during the encoding process is of high quality and delivers great looking results for DVDs. Enabling the scaling as a pre-encoding task is unnecessary and will result in banding and artifacting errors.

HDV Export to Movie Known Issues

- The Video Compressor of Export to Movie will always default to 'CineForm HDV 1080i 29.97' regardless of what the HDV Project Settings are and will not remember what it had been previously set to. Please always ensure the Export to Movie settings are verified for each export.
- Please make sure that the Pixel Aspect Ratio matches the Video Compressor Format. See the 'HDV Export to Movie' section for the PAR of the different HDV video formats.
- You cannot export HDV MPEG2 Transport streams from 'Export to Movie'.

HDV Export to Tape Known Issues

- Export to Tape does not detect if the HDV Project format does not match the formats support by the HDV device, but will attempt to export to tape anyway. This can result in the HDV device LCD displaying an error. For Export to Tape please ensure the project format and the camera settings match.
- JVC Cameras and Decks will not start recording until they detect MPEG2 data coming thru FireWire. So it is recommended for the user to insert 15 seconds of black in the beginning of their timeline to ensure that all of their desired video is recorded to tape.
- Sony HDV Devices will go into Record Standby for approximately 2 seconds before starting to Record. So it is recommended for the user to insert 2-4 seconds of black in the beginning of their timeline and increase the Delay Movie Start setting by 200-250 quarter frames.
- Please only use the HDV Device Control module with the HDV Playback module when exporting to tape. Using different device control or playback modules may result in unexpected and undesired behavior.
- The user will need to manually stop playback of the timeline before calling 'Export to Tape'.
- Exporting 720p media to a Sony HDV Device is not supported by Sony on their current models.
- If you cancel an export to tape while it is actually recording to tape, then try to re-start the render and record process, the render and record button may be greyed out due to a not-ready state on the camera.. Power Cycling the camera or exiting and restarting Adobe Premiere Pro 1.5.1 can bring the Render and Record button back to an active state.

For more up to date information about known limitations, troubleshooting and tips, see the Adobe Premiere Pro support page at www.adobe.com/support/products/premiere.html

SYSTEM REQUIREMENTS FOR HDV SUPPORT

- Intel® Pentium® 4, 3GHz 533 FSB Hyper-Threaded (Dual Pentium 4, 3.2 GHz 800 FSB Hyper-Threaded or Dual Intel® Xeon® 3.6 GHz recommended)
- Microsoft® Windows® XP Professional or Home Edition with Service Pack 2
- 1 GB of 333Mhz DDR RAM (1 GB of 400Mhz DDR RAM in Dual Channel configuration recommended)
- 800 MB of available hard-disk space for installation
- Microsoft DirectX compatible sound card (ASIO-compatible sound card recommended)
- 8x AGP or PCI-Express Graphics Card with 128 MB DDR RAM (256 MB DDR RAM recommended)
- For HDV Capture and Export: OHCI-compatible IEEE 1394 interface and dedicated large capacity 7200 RPM UDMA 133 IDE/SATA, or SCSI hard disk capable of sustained rates up to 20 MB/s (for best performance use a SATA or SCSI RAID0 array with two or more drives)

Adobe Premiere Pro 1.5.1 is optimized for use with Intel® processor based systems. It is possible to run Adobe Premiere Pro 1.5.1 on an AMD processor based system though dual Opteron CPU based platforms are highly recommended.

System Performance Enhancements

Below are some suggestions that will enhance performance when editing HDV within Adobe Premiere Pro:

- Shutting down all background programs including screensavers and desktop alerts is advisable to improve performance, however, disabling anti-virus programs may put your system at risk.
- Faster CPUs in your system will speed up transcoding during Capture and Export to Tape as well as Playback during editing; however, do not overclock, or increase the CPU speed beyond its rated value.
- “Dual Channel” RAM configurations can result in performance enhancements and are highly recommended.
- It is recommended to format all video drives as NTFS and perform defragmentation at regular intervals. If using a single video drive, please set the driver as a MASTER rather than a SLAVE. If you are not getting the expected performance from you hard drive, please run a benchmark test on the hard drive to determine any problems.

For the latest information on system requirements please refer to http://www.adobe.com/products/premiere/systemreqs.html.

THIRD PARTY COMPATIBILITY

Third Party Software

The Adobe Premiere Pro 1.5.1 update only ships with the CineForm Intermediate DirectShow Codec and does not currently ship with the CineForm Intermediate Video for Windows Codec. This may prohibit the ability for end users to import CineForm HDV Format AVI files into other applications including Adobe After Effects.

HDV Capture Cards

The Adobe Premiere Pro 1.5.1 update includes HDV capture support for any standard third party OHCI compatible IEEE 1394 host controllers (commonly known as DV, iLink or FireWire capture cards). If your PC does not have a built-in DV connector you can add any third party IEEE 1394 card.

HDV External Monitor Support

HDV project timelines can be previewed on external monitors using one of many supported graphics cards. These graphics cards must have the ability to support a second monitor and must have DirectX overlay support. The table below shows compatibility of various dual output graphics cards, tested by Adobe.

Card	Type	Dual Head	Video Out	Video Playback Performance	Note
ATI Radeon 9800 Pro	AGP	Yes	DVI/VGA	Good with 720p and 1080i	Recommended
ATI Radeon 9700 Pro 128MB	AGP	Yes	DVI/VGA/Custom Video Connector	Good with 720p and 1080i on DVI/VGA. Poor with custom video connector.	Not recommended
ASUS (ATI) - Extreme AX300 128Mb	PCI-Express	No	DVI/VGA/ S-Video	Video playback good on DVI/VGA. Not good on S-Video. Without dual head user must switch between app and video.	Not recommended
ATI - Radeon 9550	AGP	Yes	DVI/VGA	Good with 720p and 1080i	Recommended
Gigabyte Radeon 9250VGA and S-video out	AGP	No	DVI/VGA/S-Video	Good with 720p and 1080i. Without dual head user must switch between app and video.	Not recommended
Nvidia 5700 Ultra	AGP	No	DVI/Analog	Fairly good on 720p and 1080i. Some stutters	Useable
Nvidia 6800 Ultra	AGP	Yes	Dual DVI	Identical to Nvidia 5700	Useable
Nvidia Quadro 4 980XGL	AGP	Yes	Dual DVI	Identical to Nvidia 5700	Useable
Nvidia Quadro FX 540	PCI-Express	Yes	Dual DVI, Custom Video Out	Good with 720p and 1080i on DVI. Poor with custom video connector.	Recommended

Playback performance with all cards tended to be smoother on CRT monitors as opposed to LCD monitors. Setting the refresh rate of monitors to a multiple of the video frame rate used in the Adobe Premiere Pro project improved playback performance. As with any piece of hardware, the above graphics cards performance can be affected by new drivers from the manufacturer. Please check with Adobe.com in the technical support section for the latest information on graphic card compatibility. New hardware and other manufacturers cards may be compatible, but were not tested at the time of this software update.

Below is information regarding external monitor setup for some common graphics cards. As manufacturers post new drivers, these instructions may become obsolete. Please download the latest drivers and documentation for your specific graphics card.

- ATI RADEON
  1. In Windows Display Properties, Click on the 'Settings' Tab
  2. Select the second monitor in the 'Display' drop down menu
  3. Be sure that the check box "Extend My Windows Desktop onto This Monitor" is UNCHECKED.
  4. Select the first monitor in the 'Display' drop down menu
  5. Click on the 'Advanced' button to view the ATI Radeon Settings
  6. Click on the 'Overlay' Tab
  7. Click on 'Clone Mode Options'
  8. In 'Overlay Display Mode' select 'Theatre Mode'
  9. In 'Set Video Aspect Ratio To' select 'Same As Source Video'
  10. In 'Display Device Aspect Ratio' select the aspect ratio of the device you are displaying to
  11. Click on 'Display'
  12. Be sure both monitors are activated and designated correctly as either Primary or Feature Monitor.

- nVidia GeForce
  1. In Windows Display Properties Click on the 'Settings' Tab
  2. Select the second monitor in the 'Display' drop down menu
  3. Be sure that the check box "Extend My Windows Desktop onto This Monitor" is CHECKED.
  4. Click on the 'Advanced' button to view the nVidia Card
  5. Click on the Tab with the nVidia Logo and the model name/number of the card.
  6. In the side menu that pops out select 'Full Screen Video'
  7. In the 'Full Screen Device' drop down menu, select 'Auto-Select'
  8. Apply the settings
  13. Apply the Settings

- Matrox Parhelia and P750
  1. Be sure your monitors are connected correctly using the provided Parhelia cables. Please consult the Matrox Parhelia manual, or help file for instructions on cabling setup
  2. Open the Matrox 'Power Desk' setup program
  3. Click on 'Multi Display Setup'
  4. Select the number of monitors you are setting up
  5. Select the setup profile that matches the monitor configuration you have set up (Consult the Matrox Parhelia help file for more information)

For the latest information on 3rd party compatible hardware, please refer to http://www.adobe.com/products/premiere/dvhdwrdb.html

OTHER RESOURCES

Visit the Adobe Premiere Pro page on the Adobe Web site: http://www.adobe.com/products/premiere/main.html. You will find links to tutorials, user groups, third-party plug-in developers, Adobe Customer Support, and more.

Adobe offers complete solutions for creating professional digital video productions. Explore the resources listed here to learn more:
http://www.adobe.com/motion/primers.html

Also, sign up for our free Technical Announcements -- timely e-mails that will keep you up-to-date with technical how-tos, patches, and other information on Adobe Premiere Pro: http://www.adobe.com/support/emaillist.html.

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