

# **Exporting Final Cut Pro X Clips for BlackStorm Server Playout**

You must use the Apple Compressor application to render video clips from Final Cut Pro X to a BlackStorm Server supported video format before you export the video clips to your BlackStorm Server for transcoding. BlackStorm Servers support the following video formats for transcoding:

- Avid DNxHD® use this format for HD playout.
- **DVCPRO HD** use this format for HD playout.
- **DV** use this format for SD playout.
- Animation this format can be used for SD and HD key+fill playout.

#### Avid DNxHD

Before you can use Compressor to render video clips from Final Cut Pro X to the Avid DNxHD format, you must create a custom setting in Compressor for the Avid DNxHD format. If you already have the required custom setting, you are ready to render.

## To render a video clip to the Avid DNxHD format:

- 1. Start Final Cut Pro X and create a video clip.
- Use the File menu to select Send to Compressor to open the Compressor application with your Final Cut Pro X project.
- 3. In the upper right corner of the **Compressor** application, click the **Inspector** icon to display the **Inspector** panel.
- 4. In the upper left corner of the Compressor application, click the Show icon to display the Settings list.
- Drag your Avid DNxHD custom setting from the Settings list to your Final Cut Pro X project.
  - If you do not have an **Avid DNxHD custom setting**, follow the procedure **To create a custom setting for the Avid DNxHD format** that follows this procedure.
- If required, use the **Inspector** panel to modify your rendering settings.
- At the bottom of the Compressor application, click Start Batch

## To create a custom setting for the Avid DNxHD format:

- 1. Open the Compressor application.
- In the upper right corner of the Compressor application, click the Inspector icon to display the Inspector panel.
- 3. In the upper left corner of the Compressor application, click the Show icon to display the Settings list.
- In the lower left corner of the Compressor application, Use the Add menu to select New Setting.
  - A dialog box opens at the top of the Compressor application.
- In the dialog box, use the Format list to select QuickTime Movie.
- In the Name box enter a name for your new setting; for example, BlackStorm DNxHD.
- In the **Description** box enter a description for your new setting.
- 8. Click **OK** to create a new setting and add it to the **Settings** list.

- 9. In the **Settings** list, select your new setting to view it in the **Inspector** panel on the right.
- 10. At the top of the Inspector panel, click General.
- 11. In the General Properties section, use the Format list to select Video and Audio.
- 12. At the top of the Inspector panel, click Video.
- 13. In the Video Properties section, use the Frame size list to select the dimensions of the output video clip as follows:

Format	Dimensions
720p 50 or 59.94	1280x720
1080i 50	1920x1080 Enter in the boxes to the right.
1080i 59.94	1920x1080
1080p 59.94	1920x1080

- **14.** Use the **Pixel aspect ratio** list to select an aspect ratio of **16:9** for the output clip.
- **15.** Use the **Frame rate** list to set the frame rate of the output video clip as follows:

Format	Frame Rate
1080i	<b>25</b> or <b>29.97</b>
720p or 1080p	<b>50</b> or <b>59.94</b>

**16.** Use the **Field Order** list to set wether the output clip is interlaced or progressive as follows:

Format	Field Order
1080i	Upper First or Lower First
720p or 1080p	Progressive

- 17. For QuickTime settings click Change to open the Standard Video Compression Settings dialog box.
- In the Standard Video Compression Settings dialog box, use the Compression Type list to select Avid DNxHD Codec.





- **19.** In the **Compressor** section, use the **Resolutions** list to select one of the following valid resolutions:
  - · 1080i/59.94 DNxHD 220 8-bit
  - 1080i/59.94 DNxHD 145 8-bit
  - 1080i/50 DNxHD 185 8-bit
  - · 1080i/50 DNxHD 120 8-bit
  - · 720p/59.94 DNxHD 220 8-bit
  - · 720p/59.94 DNxHD 145 8-bit
  - · 720p/50 DNxHD 185 8-bit
  - 720p/50 DNxHD 120 8-bit
  - 1080p/29.97 DNxHD 220 8-bit
  - 1080p/29.97 DNxHD 145 8-bit
- 20. Click OK to close the Standard Video Compression Settings dialog box.
- 21. At the top of the Inspector panel, click Audio.
- 22. In the Audio Properties section, use the Channel layout list to select a layout that meets your requirements.
- 23. Use the Sample Rate list to select 48.
- 24. Use the Sample Size list to select 16, 24, or 32.
- 25. For QuickTime settings click Change to open the Sound Settings dialog box.
- **26.** In the **Sound Settings** dialog box, use the **Format Type** list to select **Linear PCM**.
- 27. Click OK to close the Sound Settings dialog box.

# **DVCPRO HD**

Before you can use Compressor to render video clips from Final Cut Pro X to the DVCPRO HD format, you must create a custom setting in Compressor for the DVCPRO HD format. If you already have the required custom setting, you are ready to render.

# To render a video clip to the DVCPRO HD format:

- 1. Start Final Cut Pro X and create a video clip.
- 2. Use the **File** menu to select **Send to Compressor** to open the **Compressor** application with your Final Cut Pro X project.
- 3. In the upper right corner of the **Compressor** application, click the **Inspector** icon to display the **Inspector** panel.
- 4. In the upper left corner of the **Compressor** application, click the **Show** icon to display the **Settings** list.
- Drag your DVCPRO HD custom setting from the Settings list to your Final Cut Pro X project.
  - If you do not have a **DVCPRO HD custom setting**, follow the procedure **To create a custom setting for the DVCPRO HD format** that follows this procedure.
- **6.** If required, use the **Inspector** panel to modify your rendering settings.
- At the bottom of the Compressor application, click Start Batch.

# To create a custom setting for the DVCPRO HD format:

- 1. Open the Compressor application.
- In the upper right corner of the Compressor application, click the Inspector icon to display the Inspector panel.
- **3.** In the upper left corner of the **Compressor** application, click the **Show** icon to display the **Settings** list.
- In the lower left corner of the Compressor application, Use the Add menu to select New Setting.
  - A dialog box opens at the top of the Compressor application.
- In the dialog box, use the Format list to select QuickTime Movie.
- In the Name box enter a name for your new setting; for example, BlackStorm DVCPRO HD.
- In the **Description** box enter a description for your new setting.
- Click **OK** to create a new setting and add it to the **Settings** list.
- In the Settings list, select your new setting to view it in the Inspector panel on the right.
- **10.** At the top of the **Inspector** panel, click **General**.
- **11.** In the **General Properties** section, use the **Format** list to select **Video and Audio**.
- 12. At the top of the Inspector panel, click Video.
- At the bottom of the Video Properties section, click Change to open the Standard Video Compression Settings dialog box.
- 14. In the Standard Video Compression Settings dialog box, use the Compression Type list to select one of the following codecs:
  - DVCPRO HD 1080i50
  - DVCPRO HD 1080i60
  - DVCPRO HD 1080p30
  - DVCPRO HD 720p50
  - DVCPRO HD 720p60
- Click OK to close the Standard Video Compression Settings dialog box.
- **16.** At the top of the **Inspector** panel, click **Audio**.
- 17. In the Audio Properties section, use the Channel layout list to select a layout that meets your requirements.
- 18. Use the Sample Rate list to select 48.
- 19. Use the Sample Size list to select 16, 24, or 32.
- 20. For QuickTime settings click Change to open the Sound Settings dialog box.
- 21. In the Sound Settings dialog box, use the Format Type list to select Linear PCM.
- 22. Click OK to close the Sound Settings dialog box.





#### DV

Before you can use Compressor to render video clips from Final Cut Pro X to the DV format, you must create a custom setting in Compressor for the DV format. If you already have the required custom setting, you are ready to render.

# To render a video clip to the DV format:

- 1. Start Final Cut Pro X and create a video clip.
- Use the File menu to select Send to Compressor to open the Compressor application with your Final Cut Pro X project.
- In the upper right corner of the Compressor application, click the Inspector icon to display the Inspector panel.
- 4. In the upper left corner of the Compressor application, click the Show icon to display the Settings list.
- Drag your DV custom setting from the Settings list to your Final Cut Pro X project.
  - If you do not have a **DV custom setting**, follow the procedure **To create a custom setting for the DV format** that follows this procedure.
- If required, use the **Inspector** panel to modify your rendering settings.
- At the bottom of the Compressor application, click Start Batch.

# To create a custom setting for the DV format:

- Open the Compressor application.
- 2. In the upper right corner of the **Compressor** application, click the **Inspector** icon to display the **Inspector** panel.
- 3. In the upper left corner of the **Compressor** application, click the **Show** icon to display the **Settings** list.
- In the lower left corner of the Compressor application, Use the Add menu to select New Setting.
  - A dialog box opens at the top of the Compressor application.
- In the dialog box, use the Format list to select QuickTime Movie.
- In the Name box enter a name for your new setting; for example, BlackStorm DV.
- In the **Description** box enter a description for your new setting.
- Click **OK** to create a new setting and add it to the **Settings** list.
- 9. In the **Settings** list, select your new setting to view it in the **Inspector** panel on the right.
- 10. At the top of the Inspector panel, click General.
- 11. In the General Properties section, use the Format list to select Video and Audio.
- **12.** At the top of the **Inspector** panel, click **Video**.
- At the bottom of the Video Properties section, click Change to open the Standard Video Compression Settings dialog box.

- **14.** In the **Standard Video Compression Settings** dialog box, use the **Compression Type** list to select one of the following codecs:
  - DV/DVCPRO NTSC
  - DV PAL
- 15. Click **OK** to close the **Standard Video Compression Settings** dialog box.
- 16. At the top of the Inspector panel, click Audio.
- In the Audio Properties section, use the Channel layout list to select a layout that meets your requirements.
- 18. Use the Sample Rate list to select 48.
- 19. Use the Sample Size list to select 16, 24, or 32.
- For QuickTime settings click Change to open the Sound Settings dialog box.
- 21. In the Sound Settings dialog box, use the Format Type list to select Linear PCM.
- 22. Click OK to close the Sound Settings dialog box.

### **Animation**

Before you can use Compressor to render video clips from Final Cut Pro X to the Animation format, you must create a custom setting in Compressor for the Animation format. If you already have the required custom setting, you are ready to render.

## To render a video clip to the Animation format:

- 1. Start Final Cut Pro X and create a video clip.
- Use the File menu to select Send to Compressor to open the Compressor application with your Final Cut Pro X project.
- 3. In the upper right corner of the **Compressor** application, click the **Inspector** icon to display the **Inspector** panel.
- In the upper left corner of the Compressor application, click the Show icon to display the Settings list.
- Drag your Animation custom setting from the Settings list to your Final Cut Pro X project.
  - If you do not have a **Animation custom setting**, follow the procedure **To create a custom setting for the Animation format** that follows this procedure.
- If required, use the **Inspector** panel to modify your rendering settings.
- At the bottom of the Compressor application, click Start Batch.

## To create a custom setting for the Animation format:

- Open the Compressor application.
- 2. In the upper right corner of the **Compressor** application, click the **Inspector** icon to display the **Inspector** panel.
- 3. In the upper left corner of the **Compressor** application, click the **Show** icon to display the **Settings** list.





- In the lower left corner of the Compressor application, Use the Add menu to select New Setting.
  - A dialog box opens at the top of the Compressor application.
- In the dialog box, use the Format list to select QuickTime Movie.
- In the Name box enter a name for your new setting; for example, BlackStorm Animation.
- In the **Description** box enter a description for your new setting.
- 8. Click **OK** to create a new setting and add it to the **Settings** list.
- 9. In the **Settings** list, select your new setting to view it in the **Inspector** panel on the right.
- **10.** At the top of the **Inspector** panel, click **General**.
- 11. In the General Properties section, use the Format list to select Video and Audio.
- 12. At the top of the Inspector panel, click Video.
- 13. In the Video Properties section, use the Frame size list to select the dimensions of the output video clip as follows:

Format	Dimensions
720p 50 or 59.94	1280x720
1080i 50	1920x1080 Enter in the boxes to the right.
1080i 59.94	1920x1080
1080p 59.94	1920x1080

- **14.** Use the **Pixel aspect ratio** list to select an aspect ratio of **16:9** for the output clip.
- **15.** Use the **Frame rate** list to set the frame rate of the output video clip as follows:

Format	Frame Rate
1080i	<b>25</b> or <b>29.97</b>
720p or 1080p	<b>50</b> or <b>59.94</b>

**16.** Use the **Field Order** list to set wether the output clip is interlaced or progressive as follows:

Format	Field Order
1080i	Upper First or Lower First
720p or 1080p	Progressive

- 17. For QuickTime settings click Change to open the Standard Video Compression Settings dialog box.
- In the Standard Video Compression Settings dialog box, use the Compression Type list to select Animation.

- 19. Click OK to close the Standard Video Compression Settings dialog box.
- 20. At the top of the Inspector panel, click Audio.
- In the Audio Properties section, use the Channel layout list to select a layout that meets your requirements.
- 22. Use the Sample Rate list to select 48.
- 23. Use the Sample Size list to select 16, 24, or 32.
- 24. For QuickTime settings click Change to open the Sound Settings dialog box.
- 25. In the Sound Settings dialog box, use the Format Type list to select Linear PCM.
- **26.** Click **OK** to close the **Sound Settings** dialog box.

# **Contacting Technical Support**

At Ross Video, we take pride in the quality of our products, but if problems occur, help is as close as the nearest telephone.

Our 24-hour Hot Line service ensures you have access to technical expertise around the clock. After-sales service and technical support is provided directly by Ross Video personnel. During business hours (eastern time), technical support personnel are available by telephone any time. After hours and on weekends, a direct emergency technical support phone line is available. If the technical support person who is on call does not answer this line immediately, a voice message can be left and the call will be returned shortly. This team of highly trained staff is available to react to any problem and to do whatever is necessary to ensure customer satisfaction.

Technical Support: (+1) 613-652-4886

• After Hours Emergency: (+1) 613-349-0006

E-mail: techsupport@rossvideo.comWebsite: http://www.rossvideo.com

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