User's Guide for Photoshop HD-NTV Export Plug-in

Export Plug-in

The Export plug-in is responsible for exporting the current photoshop image to the HD-NTV board for serial digital output. The export function from photoshop is activated via the File->Export->HDNTVExport menu selection. The plug-in currently only exports RGB Mode 8 bit images. The export dialog is shown in Figure 1. The Plug-in dialog for the Macinstosh is similar.

FIGURE 1. Windows Photoshop Export Dialog



The photoshop export plug-in for all platforms contain the following controls:

- Export To Board

  This control allows the choice of the board to be exported to if more than one board is installed.

- Export To Channel

  The control determines the destination framestore channel. The framestore has 2 Channels. If video processing is disabled in the HDNTVControlPanel, Channel 1 will go to Output 1 and Channel 2 will go to Output 2. For information on HD-NTV Video Processing see the windows help file for the HDNTVContorlPanel.On the Macintosh, see the HDNTVVidProc application

  If Channel 1 is chosen and there is alpha information, the alpha information will exported as a key to the HD-NTV board. The video will go out Output 1 and the alpha will go out Output 2(if video processing is disabled).

- Vertical Filtering

  When the Vertical Filtering box is checked, the photoshop image is filtered in the vertical direction before exporting to the HD-NTV card. This control is often necessary to decrease flicker caused by computer graphics non-interlace conversion to interlaced video. To perform vertical filtering, a three line kernel is used whereby half of the cur-

rent line's pixel values are combined with a quarter of each of the previous and next line's pixel values. The boundary conditions(first and last line) use black for the boundary values.

Usage Notes:

1. The exported image will be output based on the video format(1080 vs 720) set in the HD-NTV ControlPanel. For example, if the image or selected part of the image is not full size for the corresponding video format(1920x1080 or 1280x720), the image will be centered on the output.
2. If there is a selection via the Marquee tool the plug-in will export only the selected part of the image. If a non-rectangular selection is made however, the entire bounding rectangle is exported.
3. If the image or selected part of the image to be exported is larger than full size then only the upper-left most of the image will be exported
4. It is useful to use the Actions palette to avoid having the dialog come up for each export. It can also be useful to assign the action to a function key if the export function is used often