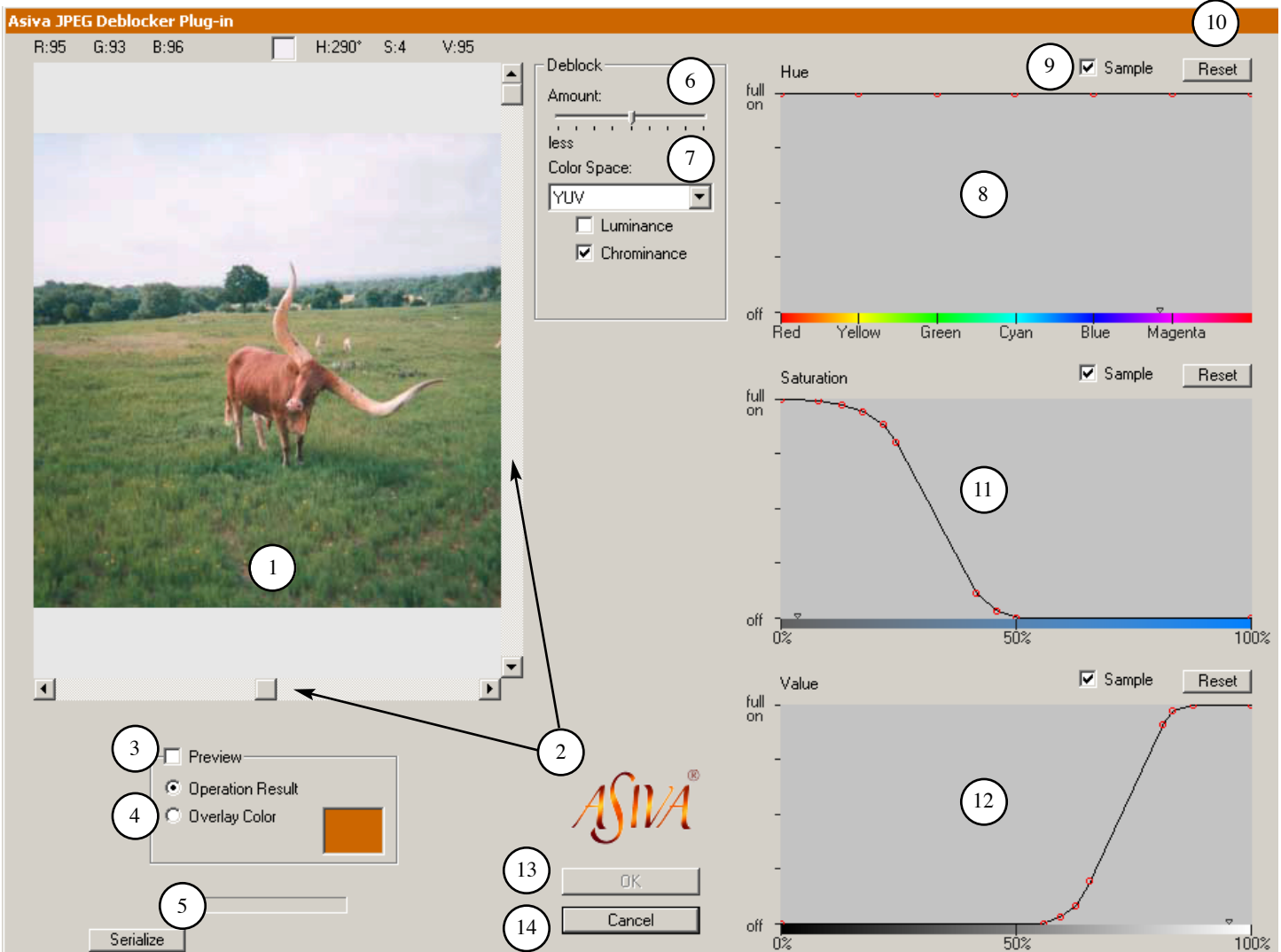


Asiva® JPEG Deblocker Plug-in, Windows® 2000/XP

Quick Reference



Introduction

Thank you for purchasing the Asiva® JPEG Deblocker plug-in. You may enable it by clicking the **Serialize Button** near the bottom-left side of the dialog.

The Asiva Deblocker plug-in allows you to attenuate the block artifacts that result from the JPEG compression algorithm.

Installing the Asiva Deblocker Plug-in

Double-click the installation file to decompress it. Drag the *Asiva JPEG Deblocker* folder to your Photoshop® Plug-Ins folder. Read the enclosed Read Me and the License Agreement. Run Photoshop® and access the plug-in by selecting *Asiva®* and *JPEG Deblocker* from the *Filter* menu.

Asiva JPEG Deblocker Dialog Legend

1. **Image Pane** - displays a 100%-scaled version (actual pixels) of the image, either source or rendered. You cannot zoom in or out because JPEG blocks are always 16x16 pixels and the preview render works on the scaled version, therefore you would not necessarily see what you get.

Whenever the cursor is over the Image Pane, on the left side of the dialog, the cursor will always change to the Color Sampler. The exclusive purpose of the Color Sampler Cursor is to help you set the Hue, Saturation and Value Maps. If color sampling is enabled on the checkbox above each map, clicking in the Image Pane or clicking and dragging a rectangle will sample the range of hue, saturation, and values in that area and

reflect those ranges on the corresponding Maps. All values you have selected will be set to "full on" in the Maps, and all others will be set to "off", with transitions in between.

If you hold the spacebar down while the mouse is over the Image Pane, the cursor changes to a hand. While holding the spacebar, click the mouse button and pan the image in the desired direction.

2. **Scroll Bars** - these are used to navigate around the image. You can also use the pan tool (pressing the spacebar) for quicker results.
3. **Preview Checkbox** - with the checkbox "on", the image pane displays the rendered version of the image. If the checkbox is off, the image pane shows the source image.

Note: If the Preview Checkbox is selected, any change to other controls will result in the image having to be re-rendered. You may want to disable it if you are working a large image and do not require refreshing the image each time you modify one of the controls, such as the maps.

4. **Render Display Choices** - When the Preview Checkbox is selected, the Render Display Choices define how the rendered version of the image will appear in the Image Pane. These radio buttons are active whether or not the Preview Checkbox is selected, so you may change to/from the "Operation Results" choice from/to "Overlay Color".

If "Operation Results" is the current choice and the Preview Checkbox is selected, then the results of the JPEG Deblock will be displayed in the Image Pane.

Sometimes the results of an Operation are subtle and you really cannot tell exactly where the Operation is 'hitting'. Use the "Overlay Color" radio button in these instances. Click on the adjacent color swatch to modify the Overlay Color. When "Overlay Color" is the current choice and the Preview Checkbox is selected, then the specified color will be placed everywhere the source image will be effected by the JPEG Deblock Plug-in. As your Asiva curves taper-off, so will the overlay color on the respective pixels' color values.

5. **Progress Bar** - displays progress of opening, translating, or rendering the current image. In addition,

text information may be shown above the Progress Bar.

6. **JPEG Deblock Amount Slider** - Expands or contracts the relative amount of JPEG deblocking, from the standard 16x16 pixel area up to 32x32 pixels. Increase the amount all the way to the right if your JPEG is of low quality. Of course, the rendering will slow down as you increase the JPEG Deblock amount.
7. **Color Space Pop-Up Menu** - You have the option of applying the JPEG deblocking to the Luminance and/or Chrominance channels in the YUV color space, or to the Hue, Saturation and/or Value channel in the HSV color space. Chrominance is selected by default for YUV and Hue for HSV because they usually produce better JPEG deblock results.

Asiva® Maps - Hue, Saturation and Value - the curves in these three maps specify the color range to select for JPEG Deblocking. Since the Deblocker plug-in attempts to correct a very specific problem, i.e. the blocks resulting from compression in low saturation, high luminance areas, the curves are preset accordingly. Although changeable, be sure you understand exactly what you are doing before attempting to modify the curves. This may require running the plug-in, performing a subsequent filter within Photoshop, and then stepping backwards

8. **Hue Map** - specifies how much to Deblock a pixel based on its hue.
9. **Sample Checkbox** - enables Hue Map automatic curve setting by sampling in Image Pane. Same for other Maps.
10. **Reset Button** - resets Hue Map to default curve. Same for other Maps.
11. **Saturation Map** - specifies how much to select a pixel based on its saturation.
12. **Value Map** - specifies how much to select a pixel based on its value.
13. **OK Button** - closes the dialog window and applies the deblocker algorithm to the source image. This button is disabled until you serialize the plug-in.
14. **Cancel Button** - selecting the Cancel Button at any time will dismiss the plug-in dialog window without applying the filter.