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# 1

## WELCOME

### THE COREL KPT COLLECTION FILTERS

Welcome to Corel® KPT® Collection, the revolutionary KPT series of filters designed to help you create dazzling and unique effects.

Corel KPT Collection includes 24 extraordinary filters that produce dazzling and unique effects for print and the Web.

#### **KPT FiberOptix**

The KPT® FiberOptix™ filter lets you create realistic hair, fur, rain showers, and more. You can control the length, color, and tint of each fiber you create on a source image. Using a mask, you can create fibers in specific shapes; for example, you can create hair that grows as text.

#### **KPT Frax4D**

The KPT® Frax4D™ filter lets you create 3-D sculptures out of fractal space. You can wrap these sculptures with any environment map. You can also rotate sculptures and render them as images.

#### **KPT Blurrrr**

The KPT® Blurrrr™ filter lets you manipulate the pixels in a source image to soften, smooth, and blend its edges and colors.

#### **KPT Equalizer**

The KPT® Equalizer™ filter lets you use a variety of filters to add interesting effects to images by manipulating their frequencies; for example, you can sharpen or blur images.

#### **KPT FraxPlover**

The KPT® FraxPlover™ filter lets you create an infinite variety of fractal patterns. You can also customize fractals using various color, contrast, distortion, and zooming tools.

#### **KPT ShapeShifter**

The KPT® ShapeShifter™ filter lets you apply interesting effects to objects; for example, you can apply bevels, graphics and text layers, and dimensions. You can also use environment and bump maps to achieve reflections and surface texture. You can

create multiple objects at once; for example, by loading a mask with the shapes of each letter in a font set, you can turn the shapes into 3-D buttons for a Web site.

### **KPT Noize**

The KPT® Noize™ filter lets you explore a variety of mathematically generated noise patterns that can be used as textures, patterns, or noise maps. You can select a noise family, mutate it to explore its variations, and apply it to a source image.

### **KPT Gel**

The KPT® Gel™ filter lets you use paint tools to create 3-D images, text treatments, and objects such as buttons and borders. You can use lighting effects, tinting, and transparency to control the qualities of effects.

### **KPT Goo**

The KPT® Goo filter lets you create effects that simulate the look of gelatin finger-painted on a source image. You can smear, splatter, twirl, pinch, or bulge images to create unique results. You can also use animation controls to save effects as movies.

### **KPT LensFlare**

The KPT® LensFlare™ filter lets you apply interesting effects on a source image to simulate the photographic reflections created by a bright light shining on a camera lens. For example, you can create glows, halos, and streaks of light.

### **KPT Materializer**

The KPT® Materializer™ filter lets you create complex textures, stunning backgrounds, and dazzling text treatments on source images. You can import bump maps and scale, pan, and rotate them to achieve interesting effects. You can also use lighting controls to manipulate surface textures.

### **KPT Projector**

The KPT® Projector™ filter lets you use warping effects to create 2-D perspective distortions and 3-D transformations on source images. You can also create infinite planar tiling at any angle, and you can use anisotropic light filtering.

### **KPT Reaction**

The KPT® Reaction™ filter lets you use patterns and diffusion options to create realistic simulations of organic textures, such as the growth pattern of coral or the stripes on a zebra.

### **KPT Turbulence**

The KPT® Turbulence™ filter lets you create waves on a surface image. As the waves distort the image, they become animated and fluid. You can apply color blends to the waves. You can also take a snapshot of the waves that you can apply to a source image, or you can save the waves in motion as a movie.

## **KPT RadWarp**

The KPT® RadWarp™ filter lets you use a simulated camera effect called barrel distortion to warp the edges of images. You can also correct barrel distortion on images.

## **KPT Channel Surfer**

KPT® Channel Surfer™ lets you apply effects to individual channels in an image. You can blur or sharpen a channel, or adjust its contrast or value. You can adjust the amount and transparency of the effect, and control how the effect blends with the source image.

## **KPT Fluid**

KPT® Fluid™ lets you manipulate images by applying liquid-like transformations and distortions that simulate dragging a brush across a wet surface. You can control the effect by setting the thickness of the fluid as well as the brush size and velocity. You can use various preview techniques to fine tune the effect, and choose to save the fluid in motion as a movie.

## **KPT FraxFlame II**

KPT® FraxFlame II™ lets you explore and mutate an infinite variety of flame fractals. You can also customize fractals with various color, contrast, and distortion techniques.

## **KPT Gradient Lab**

KPT® Gradient Lab™ lets you create complex color blends with various levels of transparency. You can also customize gradients with interesting shapes, styles, and pixel distortions.

## **KPT Hyper Tiling**

KPT® Hyper Tiling™ lets you create and save intricate tiling effects by reducing the source image to create a tile. The tile is then repeated to create a hyper tiling effect. You can create different blends between the source image and the effect, and change the perceived distance from the effect. You can also change the depth, transparency, position, and size, of the effect, and rotate it through space.

## **KPT Ink Dropper**

KPT® Ink Dropper™ lets you create the effect of dropping colored liquid (ink) on glass, canvas, or into another liquid. You can also create your own background images. You can choose the color of the liquid, and change its intensity and transparency. You can also change the size of the individual drops, and the rate at which they disperse on the surface.

## **KPT Lightning**

KPT® Lightning™ lets you create powerful, customized lightning bolts. You can control every aspect of a lightning bolt, from setting its length and color, to determining its path

and how much it zags and wanders. The lightning effect can then be realistically integrated into your source image using one of several blend modes.

## **KTP Pyramid Paint**

KTP® Pyramid Paint™ uses the Lab color mode to let you transform source images into effects that resemble paintings, and perform various color and contrast adjustments to them.

## **KPT Scatter**

KPT® Scatter™ is a 2-D particle system that lets you scatter a range of particles over a source image. You can scatter large masses of particles over an effect, or create densely packed particles to emulate intricate effects such as paint strokes or mosaics. You can also create special effects based on the way particles interact with the properties of a source image.

## **About the User Guide**

The Corel KPT Collection User Guide assumes you are already familiar with basic Mac OS® and Windows® concepts — menus, dialog boxes, and mouse operations, such as clicking and dragging. If you need more information on these subjects, or about the Apple® Finder™ or the Windows desktop, refer to the Mac OS® User Manual or the Microsoft® Windows® User Guide, respectively.

## **User Guide Conventions**

The Corel KPT Collection User Guide is for both Mac OS and Windows platforms. By convention, Mac OS commands precede Windows commands in the text. For example, Command/Ctrl + I, is equivalent to the Mac OS Command + I and the Windows Ctrl + I, and indicates that you must hold down the Command or Ctrl key, and press I. The term “folder” refers to directories as well as folders. The Corel KPT Collection interface for Mac OS and Windows platforms is identical, unless otherwise specified.

## **About Corel Corporation**

Founded in 1985, Corel Corporation ([www.corel.com](http://www.corel.com)) is a leading technology company specializing in content creation tools, business process management and XML-enabled enterprise solutions. The company’s goal is to give consumers and enterprise customers the ability to create, exchange and instantly interact with visual content that is always relevant, accurate and available. With its headquarters in Ottawa, Canada, Corel’s common stock trades on the Nasdaq Stock Market under the symbol CORL and on the Toronto Stock Exchange under the symbol COR.

## **Corel Customer Support Services**

Corel Customer Support Services can provide you with prompt and accurate information about product features, specifications, pricing, availability, services and technical support.

## Online Support Services

For information about online support services, visit [www.corel.com](http://www.corel.com). Please note, some of the services are available only in English.

## Telephone Support Services

Web services	Description
Corel® Knowledge Base	Allows you to read, print and download documents that contain answers to many technical questions.
Newsgroups (peer-to-peer forums)	Allow you to exchange information, tips and techniques with other users of Corel products.
Downloads	Allow you to download product patches, updates and trial versions.

For detailed information regarding telephone support services, please visit [www.corel.com](http://www.corel.com).

Live telephone support services are available for all Corel products from warranty support (30 days) to fee-based Priority and Premium Services. OEM, “white box,” jewel case (CD only), trial, and Academic versions of Corel products are eligible for fee-based support services only.

## North America

For pricing, purchasing, or general inquiries about Corel products, you can call Customer Service toll-free at 1-800-772-6735.

To speak directly to a technician please dial 1-613-274-0500. The hours of operation are 8:30 a.m. to 7:30 p.m., Monday to Friday, Eastern Standard Time (EST).

## Outside North America

For pricing, purchasing, or general inquiries about Corel products, you can call Customer Service toll-free at 1-800-267-35127. If the country you are calling from is listed below, please call the corresponding number.

Please note that these numbers may change as we adapt our services to fit user needs. Check the international support numbers page at [www.corel.com](http://www.corel.com) for the most up to date contact details.

Contact Customer Service for pricing, purchasing, general inquiries, or replacement CDs. Contact Technical Support Services should you require technical assistance operating your Corel software.

Country	Customer Service	Technical Support
Argentina	0800 777 3203	57 1 523 1240
Australia	1 800 658 850	61 2 8844 4101
Austria	0192 89600	0192 89600
Belgium (Dutch)	0240 06733	0240 06733
Belgium (French)	0240 06777	0240 06777
Brazil	0800 14 1212	55 11 5696 5797
Chile	54 0800 777 320357	1 523 1240
China	10 800 610 2323	10 800 610 2673
Colombia	01 800 091 9370	57 1 523 1240
Czech Republic	0224 239645	0224 239645
Denmark	352 58008	352 58008
Finland	922 906040	922 906040
France	0170 706090	0170 706090
Germany	06922 2220288	06922 2220288
Hong Kong	800 964 514	800 964 515
Hungary	204 117089	204 117089
Indonesia	1 803 61 539	1 803 61 544
Ireland	0124 77724	0124 77724
Israel	44 1628 581601	44 1628 581601
Italy	0236 003600	0236 003600
Japan	81 3554 53274	81 3531 93013
Luxembourg	44 1628 581603	44 1628 581603
Malaysia	1 800 807 895	1 800 807 899
Mexico	1 800 1234 854	57 1 523 1240
Netherlands	0207 132700	0207 132700
New Zealand	0508 267 351	0800 908 592
Norway	229 71908	229 71908
Poland	071 3477279	071 3477279

Portugal	44 1628 581601	44 1628 581601
Singapore	800 6161 853	800 6161 854
South Africa	0860 223 388	0860 223388
South Korea	82 2 3444 5166	82 2 3444 5166
Spain	0914 141500	0914 141500
Sweden	0856 610555	0856 610555
Switzerland (German)	0158 03280	0158 03280

## **Mail and Fax Support Services**

You can send inquiries to Corel Support Services representatives by mail or fax.

Corel Support Services  
1600 Carling Avenue  
Ottawa, Ontario, Canada  
K1Z 8R7  
Fax: 1-613-761-9176

# 2

## GETTING STARTED

### WHAT IS COREL KPT COLLECTION?

Corel KPT Collection is an extraordinary collection of filters that produce dazzling and unique effects for print and the Web. Whether you are a professional designer, artist, Web author, or hobbyist, the Corel KPT Collection filters will help you take your work to a new creative level, and enhance your productivity.

In this section, you'll learn about

- installing Corel KPT Collection
- accessing and quitting Corel KPT Collection filters
- the workspace
- using panels and sliders
- previewing filter effects
- customizing the workspace
- storing workspace and panel settings
- working with presets

### INSTALLING COREL KPT COLLECTION

You can install Corel KPT Collection in host applications compatible with Mac OS and Windows.

#### TO INSTALL COREL KPT COLLECTION IN MAC OS

- 1 Insert the Corel KPT Collection CD into the computer's CD drive.
- 2 Browse to the **Corel KPT Collection** folder.
- 3 Double-click the **Corel KPT Collection installer** icon.
- 4 Follow the instructions on your screen.

#### TO INSTALL COREL KPT COLLECTION IN WINDOWS

- 1 Insert the **Corel KPT Collection** CD into the computer's CD drive.
- 2 Click **Install**.
- 3 Follow the instructions on your screen.

### ACCESSING AND QUITTING FILTERS

You can access a Corel KPT Collection filter from the host application. You can quit a Corel KPT Collection filter in two ways. You can quit a filter and apply the effect to the source image in the host application. You can also quit a filter without applying the effect to the source image in the host application.

#### TO ACCESS A FILTER

Do one of the following:

- In Adobe® Photoshop®, click **Filters** ▶ **Corel KPT Collection**, and click a filter.
- In Painter, click **Effects** ▶ **Corel KPT Collection**, and click a filter.
- In Corel PHOTO-PAINT, click **Effects** ▶ **Corel KPT Collection**, and click a filter.
- In Bryce®, click a flyout arrow in the **Pictures** dialog box in **Picture editor**, click **Corel KPT Collection**, and click a filter.

**Note**

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If you want to access a Corel KPT Collection filter in Bryce for the first time, you must first click a flyout arrow in the **Pictures** dialog box, click **Select plug-ins folder**, choose the folder where Corel KPT Collection is installed, and click **Choose/OK**.

**To quit a filter**

Click one of the following buttons:

- **OK** — to quit a filter and apply the effect
- **Cancel** — to quit a filter without applying the effect

## Using panels and sliders

You can set the style in which panels display. You can also move sliders.

**To set a panel display style**

- 1 Click the filter name.
- 2 From the **Filter options** list box, choose one of the following styles:

- **Panel auto popup** — to automatically expand panels as you move the pointer over them
- **Panel manual popup** — to manually expand panels by clicking the **Cycler** button in the title bar
- **Panel solo mode** — to expand the current panel and automatically collapse those not in use

**Note**

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In **Panel auto popup** mode, sliders expand to display a panel with additional controls you can use to adjust slider settings incrementally, and view previous slider settings (indicated by the location of the gray arrow).

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In **Panel manual popup** mode, you can expand a panel by clicking the **Cycler** button in the right corner of its title bar.

---

In **Panel solo mode**, you can collapse an expanded panel by double-clicking its title bar.

**To move a slider**

- Drag the black slider arrow.

## Previewing filter effects

The **Preview** window lets you dynamically view the results of your work. You can apply a background to the **Preview** window. You can also move and size the **Preview** window.

### To apply a background to the Preview window

- Click the flyout arrow in the **Preview** window, and choose one of the following options from the **Preview options** list box:
  - **Preview against black** — to display an effect against a solid black background
  - **Preview against white** — to display an effect against a solid white background
  - **Preview against checkerboard** — to display an effect against a background of gray squares
  - **Preview against dark checkerboard** — to display an effect against a background of dark gray squares
  - **Preview against gradient** — to display an effect against a grayscale gradient background

#### Note

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The effect only displays against the background while it is in the **Preview** window. The background is not applied to the source image in the host application, and does not impact the final render of the effect.

### To move the Preview window

- Drag the title bar.

### To size the Preview window

- 1 Click the flyout arrow in the **Preview** window.

- 2 From the **Preview options** list box, choose one of the following **Preview** window sizes:

- **Small preview**
- **Medium preview**
- **Large preview**

## CUSTOMIZING THE WORKSPACE

You can apply a fun icon style to the common workspace. If the KPT workspace is smaller than the resolution of your screen, you can also display or hide common workspace controls.

### To apply a fun icon style to the common workspace

- 1 Click the **KPT** logo.
- 2 Choose **Smileys!** from the **Global options** list box.

### To display or hide common workspace controls

- 1 Click the **KPT** logo.
- 2 Choose **Black out screen** from the **Global options** list box.

## STORING WORKSPACE AND PANEL SETTINGS

Storing workspace settings lets you save different workspace layouts. For example, you can arrange all panels on one side of the workspace and enlarge the **Preview** window, and then save this layout for later use.

Storing panel settings lets you save and compare different versions of a filter effect.

The workspace and panel settings you save are retained from one session to another, so you can use them again and again. When you no longer need stored workspace and panel settings, you can clear them. You can also restore default workspace or panel settings.

#### To STORE WORKSPACE SETTINGS

- Click a gray memory dot in the **Layout** panel.

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**Note** Empty memory dots display gray, full memory dots display green, and memory dots currently in use display yellow.

#### To STORE PANEL SETTINGS

- Click a gray memory dot in the **Recall** panel.

#### To USE STORED WORKSPACE OR PANEL SETTINGS

- Click a green memory dot in one of the following panels:
  - **Layout** — to use stored workspace settings
  - **Recall** — to use stored panel settings

#### To CLEAR STORED WORKSPACE OR PANEL SETTINGS

- Hold down **Option/Alt**, and click the corresponding green memory dot in one of the following panels:

- **Layout** — to clear stored workspace settings
- **Recall** — to clear stored panel settings

#### To RESTORE DEFAULT WORKSPACE OR PANEL SETTINGS

- Click the memory dot in the center of one of the following panels:
  - **Layout** — to restore default workspace settings
  - **Recall** — to restore default panel settings

## Working with PRESETS

Some Corel KPT Collection filters provide you with preset effects. You can load a preset effect. You can also save an effect you create as a preset. You can create multiple presets categories in which to organize the presets you store.

You can import and export presets.

#### To load A PRESET

- 1 Click the **Presets** button.
- 2 Double-click a preset thumbnail in the **Presets library** panel.

If the preset is stored in a category, you must first choose the category from the middle-left tile of the **Presets library**

panel, then double-click a preset thumbnail.

Note

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You can preview a preset by single-clicking a preset thumbnail. A larger version of the preset thumbnail displays in the upper-left tile of the **Presets library** panel.

**To save an effect as a preset**

- 1 Click the **Presets** button.
- 2 Choose a category from the middle-left tile of the **Presets library** panel.
- 3 Click **Add preset**.

A preset thumbnail displays in the **Presets library** panel.

Note

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You can also delete a preset from a category by clicking a preset thumbnail, and clicking **Delete preset**.

**To create a presets category**

- 1 Click the **Presets** button.
- 2 Click the flyout arrow in the **Presets library** panel, and click **Create new category**.
- 3 A text box displays in the middle-left tile of the **Presets library** panel.
- 4 Type a name.
- 5 Press **Return/Enter**.

Each category can store up to 24 presets.

**To import a preset**

- 1 Click the **Presets** button.

- 2 Click **Import** in the **Presets library** panel.

If you want to import a preset to a specific category, you must first choose the category from the middle-left tile of the **Presets library** panel, and then click **Import**.

- 3 Choose the folder where the file is stored in the **From** dialog box.
- 4 Click the file.
- 5 Click **Open**.

The preset displays as a thumbnail in the **Presets library** panel.

**To export a preset**

- 1 Click the **Presets** button.
- 2 Choose a category from the middle-left tile of the **Presets library** panel.
- 3 Click a preset thumbnail.
- 4 Click **Export**.
- 5 In the **Save as** dialog box, type a filename in the **Save as** box.
- 6 In the **Where** box, choose the folder where you want to export the file.
- 7 Click **Save**.

# 3

## KPT EQUALIZER

### WELCOME TO KPT EQUALIZER

Welcome to KPT Equalizer, which provides a set of powerful image-modification filters in one interactive plug-in application. With KPT Equalizer, you gain precise control over sharpening, selective smoothing, and blurring effects. You can correct blurred images by sharpening pixels within a specific frequency or add creative effects to your image. Whether you're correcting or creating, KPT Equalizer opens up new and exciting possibilities for image manipulation.

### OVERVIEW OF KPT EQUALIZER

The filters that make up KPT Equalizer let you apply sharpening, smoothing, and blurring effects to any image or selection. You can correct images by applying traditional sharpen/blur effects or create special effects—such as Gaussian Blurs—by dramatically changing or maxing-out filter settings.

The process of sharpening comes from a traditional film compositing technique for bringing an image into sharp focus. In digital media, sharpening refers to a method of increasing the contrast between adjacent pixels in an image.

If you examine a digital image closely, you will observe that it is made up of individual units of color called pixels. When an image is crisp and focused, the pixels that define the image's details (or *edges*) display a high contrast. In a blurred image—or one with smooth gradients—these pixels display less contrast.



*In digital media, the amount of contrast between adjacent pixels creates the appearance of sharpness or blurriness.*

KPT Equalizer features three flexible filters: Equalizer, Bounded Sharpen, and Contrast Sharpen. These filters give you precise control over how you apply effects to your image:

- **Equalizer** provides a nine band panel for pixel modification on an image or selection. You can adjust the level of pixel contrast within different frequencies and control the strength of the overall effect.
- **Bounded Sharpen** transforms blurry images. Used in conjunction with a resampling filter (like Photoshop’s “Resize”), this filter helps maintain image sharpness. You can recover sharpness and detail in an image that has been increased up to two times its original size.
- **Contrast Sharpen** lets you increase the contrast between light and dark areas in an image or selection.

#### To select a KPT Equalizer filter

- Choose a filter from the Sharpen Types panel.



## Working with the Equalizer Filter

The Equalizer filter lets you apply effects to an image or selection based on pixel frequency. It includes two control panels:

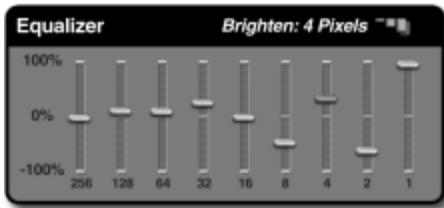
- The Equalizer panel contains sliders that control the amount of contrast within each pixel frequency.
- The Parameters panel controls the overall effect.

### Using the Equalizer Sliders

The relationship between pixel values within an image is called *visual frequency*. Gradual changes over a large area are low frequencies; rapid changes (such as edges and noise) are high frequencies.

The Equalizer panel represents frequencies as nine numbered sliders, ranging from 1 to 256. The 256 slider adjusts the lowest frequency in the image, producing a gradual effect. The 1 slider adjusts the highest frequency, affecting the edges and noise in the image. The other sliders adjust intermediary frequencies—the lower the slider number the higher the frequency.

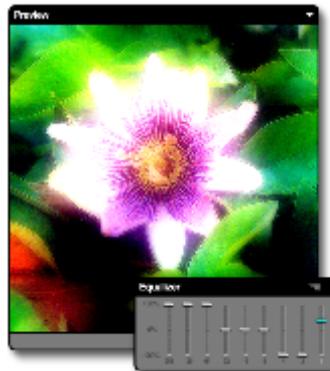
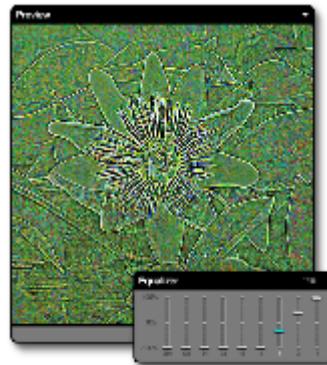
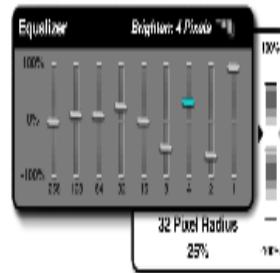
The Equalizer sliders have a range of 100% to –100%. When you set a slider to 100%, you maximize (or brighten) the contrast of pixels in that frequency. When you set a slide to –100%, you minimize (or dim) the contrast of pixels in that frequency. When you set a slider to 0%, the pixels are not affected.



The 256 slider adjusts low frequencies, or gradual features in an image. The 1 slider adjusts high frequencies, the edges and noise in an image.

If you're finding this discussion of pixel frequencies and contrast values confusing, don't worry. The joy of working with KPT Equalizer filters is that you don't have to struggle with technical details because you can easily observe filter effects in the Preview window. Let your mouse and eyes guide you; adjust the sliders and observe how your image changes. This is the best way to understand the Equalizer sliders.

Original Image

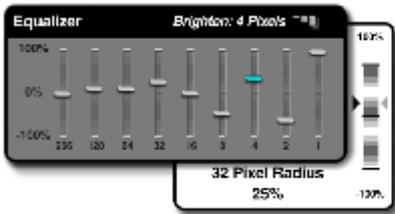


Examples of effects you can create with the Equalizer filter.

### To Adjust A FREQUENCY SLIDER

- Drag the slider up or down,

- Click in the numeric field in the Extended panel and enter a value, or
- Apply a setting from the Presets Library.



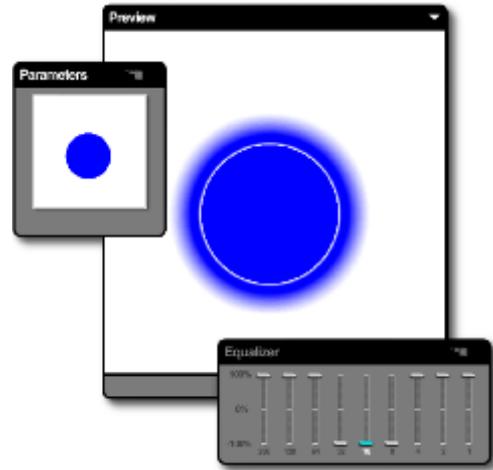
You can adjust frequency sliders in three ways: by dragging a slider up or down, entering a value, or applying a preset. Refer to “Using panels and sliders” on page 8 for more information about adjusting sliders. Refer to “Working with presets” on page 10 for more information about using Presets.

### To select and move multiple sliders

- 1 Shift+Click the sliders to select them.
- 2 Drag one slider to move all sliders in the selection.

You can create special effects by maxing-out filter settings. For example, accentuate the midband frequencies (8, 16) and deaccentuate highbands (1, 2, 4) for a softened look. Remove low frequencies (64, 128, 256) for a washed-out look.

If you are working with a masked selection (an image that does not take up the entire Preview window), be careful how you adjust the frequency sliders. If you set the low frequency slider (256, 128, 64), colors at the edge of the selection may bleed.



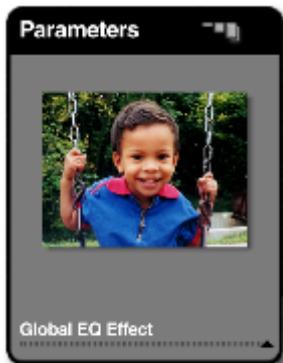
The colors at an image's edges may bleed into the mask if you use certain slider settings.

## Using the Global EQ Slider

The Parameters panel for the Equalizer filter contains the Global EQ slider for controlling the overall effect. This slider works in conjunction with the frequency sliders to apply settings from the Equalizer panel to the image at the specified percentage.

For example, when the Global EQ slider is 0%, the settings in the Equalizer panel have no effect on the image. When the Global EQ slider is 100%, the settings in the Equalizer panel are applied fully to the image.

The Parameters panel also contains a selection rectangle for adjusting your view of the image in the Preview window. Refer to “Using panels and sliders” on page 8 for more information about adjusting the preview area.



*The Equalizer filter Parameters panel.*

#### **To SET THE Global EQ slider**

- Drag the slider marker in the Parameters panel, or
- Click in the numeric field in the Extended panel and enter a value.



*You can adjust the Global EQ slider in two ways: by dragging the slider or entering a value. Refer to “Using panels and sliders” on page 8 for more information about adjusting sliders.*

## **USING THE BOUNDED SHARPEN FILTER**

The Bounded Sharpen filter addresses a problem that plagues many sharpening filters—the over-sharpening of parts of an image that results in a halo effect. Using careful contrast adjustment or clamped sharpening, Bounded Sharpen controls the value of pixels that define an image’s details (edges) to prevent over-sharpening. Used in conjunction with a resampling filter (like Photoshop’s “Resize”), this filter can help to maintain sharpness that might otherwise be lost. You can adjust both the degree of sharpening and the strength of the anti-halo effect.



*Before and after Bounded Sharpen.*

One use of the Bounded Sharpen filter is to correct images that have been resized. For example, if you increase the size of an image in Photoshop, it will become blurry because there is no detail in the original image to correctly identify edges. In general, Bounded Sharpen can restore sharpness to images.

## Using the Bounded Sharpen Sliders

The Parameters panel for the Bounded Sharpen filter contains two sliders:

- Sharpen Percent controls the strength of the effect on a scale of 0% to 500%. At 0%, the filter has no effect; at 500%, the filter increases pixel contrast dramatically.

- RGB Tolerance controls the filter's anti-halo sensitivity on a scale of 0 to 128 pixels. This setting addresses the difference between values that are next to each other. Edges will have large differences, smooth features will have small ones. RGB Tolerance is a threshold for that difference. At the lowest setting, the filter restricts the amount of modification to edge pixels. At the highest setting, the filter applies everywhere in the image.

The Parameters panel also contains a selection rectangle for adjusting your view of the image in the Preview window. Refer to "Using panels and sliders" on page 8 for more information about adjusting the preview area.

### To Set the Sharpen Percent and RGB Tolerance Sliders

- Drag the slider marker in the Parameters panel,
- Click in the numeric field in the Extended panel and enter a value, or
- Apply a setting from the Presets Library



You can adjust the Bounded Sharpen sliders in three ways: by dragging a slider marker, entering a value, or applying a preset. Refer to “Using panels and sliders” on page 8 for more information about adjusting sliders. Refer to “Working with presets” on page 10 for more information about using Presets.

## Using the Contrast Sharpen Filter

The Contrast Sharpen filter enhances local contrast in an image. You can adjust the radius that the filter uses to analyze each portion of the image.



Before and after using the Contrast Sharpen filter.

## Using the Sharpen Radius Slider

The Parameters panel for the Contrast Sharpen filter contains the Sharpen Radius Pixels slider. This slider controls the width of the area that the filter analyzes when adjusting pixel contrast. It is based on a scale of 0 to 250 pixels. At lower settings, the filter creates a gradual effect. At higher settings, the filter optimizes the contrast globally to create more dramatic lights and darks in the image.

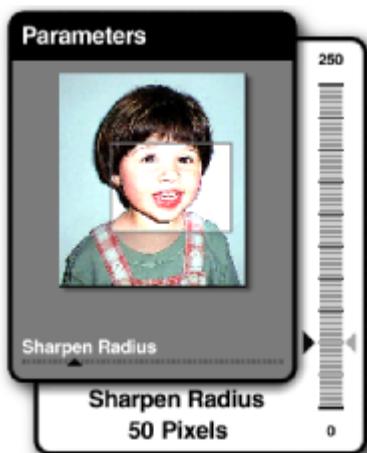
---

**Note** Use settings in the low range (1–10 pixels) to achieve the most interesting effects with the Contrast Sharpen filter.

The Parameters panel also contains a selection rectangle for adjusting your view of the image in the Preview window. Refer to “Using panels and sliders” on page 8 for more information about adjusting the preview area.

### To SET THE SHARPEN RADIUS slider

- Drag the slider marker in the Parameters panel,
- Click in the numeric field in the Extended panel and enter a value, or
- Apply a setting from the Presets Library.



You can adjust the Contrast Sharpen slider in three ways: by dragging the slider marker, entering a value, or applying a preset. Refer to “Using panels and sliders” on page 8 for more information about adjusting sliders. Refer to “Working with presets” on page 10 for more information about using Presets.

## Using Keyboard Commands

Keyboard commands are especially useful for operations that you perform frequently. This section lists KPT Equalizer-specific commands.

What you press:	The results you get:
Shift+ Click	Select or deselect multiple sliders
Click in gray area of panel	Deselect all but last selected slider

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