



# DpuScan

Janich & Klass  
Computertechnik GmbH



**DpuScan 6.x**

Referenzhandbuch

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Die aktuelle Version des DpuScan Referenzhandbuch finden Sie im Web unter:

<http://www.jkimaging.com/pdf/DpuScan-Referenzhandbuch.pdf>

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# 1 Gamma Correction

## Introduction

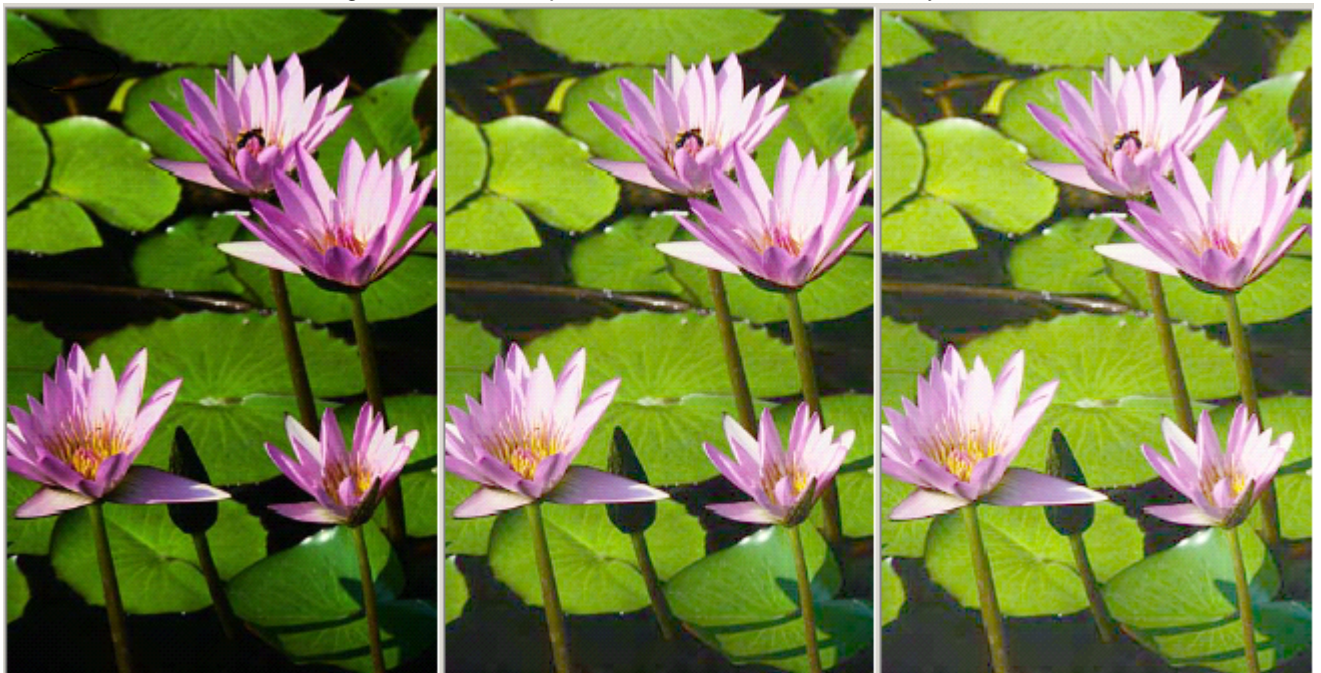
## Task Configuration

## Base Profil Configuration

## How to Configure the Gamma Correction

### 1.1 Introduction

The Gamma correction improves brightness and contrast of color on a grayscale, or color image. It is utilized where originals contain photos or dark graphics, like newspaper advertisements, darkened old technical drawings, or damage claims to insurances, with the photo of bruised black car door. With "normal" black&white originals, like correspondence, files or so, it will hardly ever be used..



In the above sample image "Water Lilies", the original photo (left-hand) was first processed with a Gamma value of 1.8 (in the middle) and alternatively 2.4 (right-hand). So, the stems of the flowers became obvious that had been hidden in the dark water and had hardly been visible.

### 1.2 Task Configuration

Gamma Correction is a PlugIn that can be used in Process Mode, but also for interactive image enhancement in Pause Mode.

You can insert the call for the PlugIn in the Task definition, after getting the image by the Task action "Load from scanner" or "Load from directory".

*This Task action becomes available only when the Plugin was loaded in the actual Base Profile.*

Configure the Task action by selecting, via the selection lists, first the Plugin, then the prior set configuration, next the color format / image that shall be processed, and finally the page/s (Front Page / Rear Page / Both Sides).

The Plugin can be used for color images, or for grayscale images. Therefore only these color formats are available at choice.

## 1.3 Base Profile Configuration

The Plugin must be loaded and configured in the Base Profile. Please open the **Base Profile Configuration**, select the **Process tab there, and click the Plugins** button. Via the **Add** button, you reach the selection dialog for available Plugins.

There please select the Plugin: JKGamPlg.

The Plugin is now loaded for usage in connection with the Base Profile.

*Please make sure that the „Plugins activated“ checkbox must be marked by a hook as otherwise the Plugins will not be utilized. The checkbox can be activated only when at least one Plugin has been loaded.*

The entry in the list of loaded Plugins shows, in the columns **Process Mode** and **Interactive Mode**, one each activated checkbox. This means that this Plugin can be used in Process Mode, what means during scanning, and also in a scan pause or in the Edit window.

## 1.4 How to Configure the Gamma Correction

On the **General tab, click the External Settings** button to open the dialog for configuration of Gamma Correction.

It contains a preview window that demonstrates the transformation effects. Initially, a "linear" graduation line is assumed at **Mode**. Switch over the **Mode** to **Function** in order activate the setting elements for **Gamma, Black Level, and White Level**.

### **Load image** (top left)

Shows an "Open File" dialog in order to load an image from the disk. This image is then displayed in the left-hand pane.

When the **Two images option is disabled, the transformed image is simultaneously displayed in the right-hand pane**. If the option is enabled, a second image can be loaded in the left-hand pane, as reference.

### **Two images**

Using **Two images** allows to select from two configuration possibility:

- In one-image-mode, the original image is displayed at left, and the transformed image at right. When you zoom or move the image, both panes will show the same image section.
- In the two-images-mode, the left-hand pane shows any other image instead the original image. The right-hand pane still shows the

transformed image, but the original image is invisible. This mode allows to adopt the transformation to a reference image.

**Load image**(right-hand)

Like above, but instead the loaded image it displays the already transformed image.

**Source**

The Gamma Correction can use two each sets of parameters for color images and gray images. So up to four images can be transferred to the Task and can be processed differently in the PlugIn.

If, in Process Mode, several images are transferred to the PlugIn, they will be distributed to the parameter sets. All further color or gray images are ignored.

Beneath these control elements, the left-hand page shows the preview. The further parameters on the right-hand side of the dialog determine the effects of the transformation.

**Preview, left /  
Preview, right**

Click your left mouse button to enlarge the section, or the right button to zoom out. To move the image section, press down the right mouse button and move the mouse. The image sections will react synchronously when the **Two images** option is disabled. Otherwise you can zoom the images out separately.

**Modus**

Here, you determine the kind of Gamma Correction:

A **linear** transformation leaves the image unchanged, an **inverted** transformation reverses the colors of the image.

If existing Gamma tables shall be used, you may load them in the **User defined mode** with the **Import Table** button.

The **Function** mode allows the interactive setting of the other parameters **Gamma**, **Black Level** and **White Level**.

**Split colors**

Use **Split colors** if you want to set the colors red, green, and blue separately.

**Gamma**

The **Gamma** value indicates how far the contrast differences that are usually spread evenly shall be moved to the medium area of the color spectrum which is most important for the human eye.

**Black Level  
White Level**

The two sliders for **Black Level** and **White Level** indicate from which or up to which color value this correction will become effective. Colors below the black level will turn black, and colors above the white level will be transformed to white.

**Import Table  
Export Table**

When the settings shall be saved, or loaded independent of DpuScan, you can do so by using the **Import Table/Export Table** button. The utilized format is compatible to the format of the Gamma tables that the Janich&Klass drivers apply for scanners from InoTec and microform.

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