



### How to Optimize Image Resizing in PosterShop

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#### A) Raster Image Setup:

The PosterShop default when resizing files is the “nearest neighbor” algorithm. This is not desired since increasing the size of an image can result in a pixilated/jaggy image. For optimal quality when resizing, choose one of the following two options:

##### 1) LightJet Interpolation:

The LightJet has a built-in hardware interpolator that can be used to scale images to a larger size with excellent results.

##### Advantages:

- Best quality
- Less processing and transfer time since files are smaller.

##### Disadvantages:

- Cannot nest images of different native resolutions on the same page.
- LightJet can't use interpolation to scale images down, it can only scale up.
- Requires more effort to setup: calculating input resolution of scaled data and selecting a sharpness level.

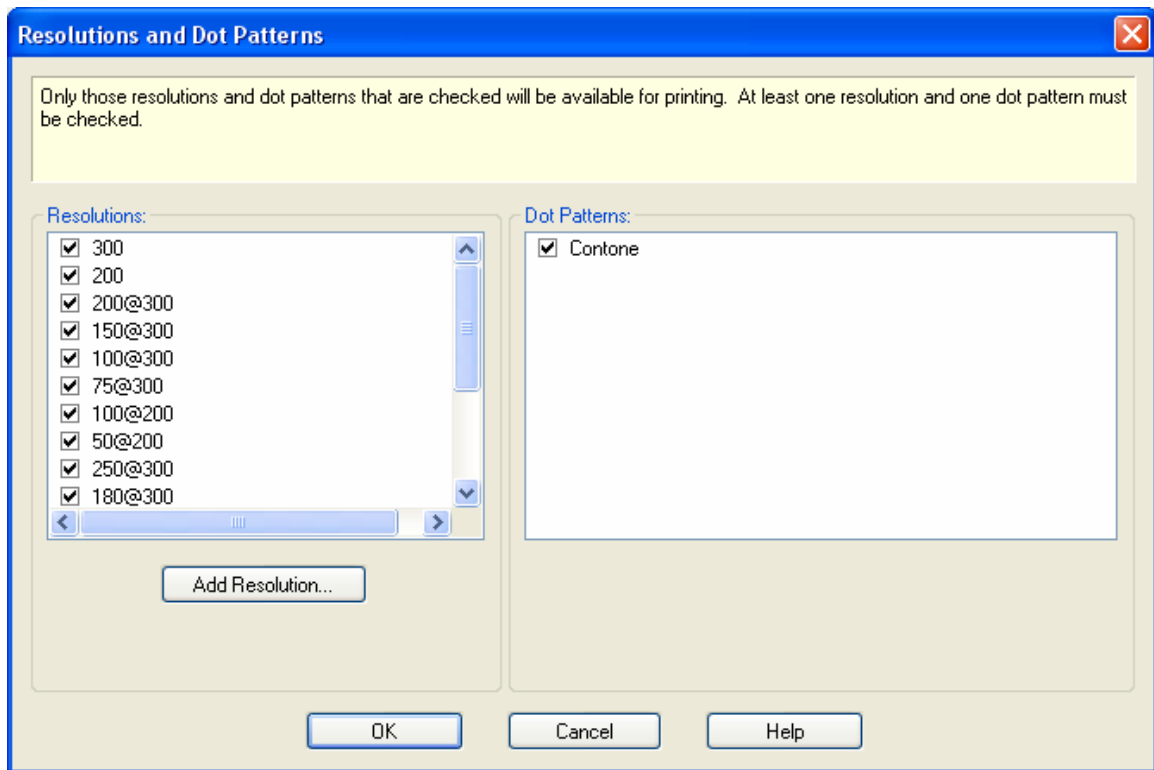
#### How to Use:

1. Determine the input resolution for the desired final image size. The input resolution of the final image size is the source image resolution divided by the magnification. The source image resolution before scaling can be found in the Preflight/"Printer and Media" tab (lower left corner).

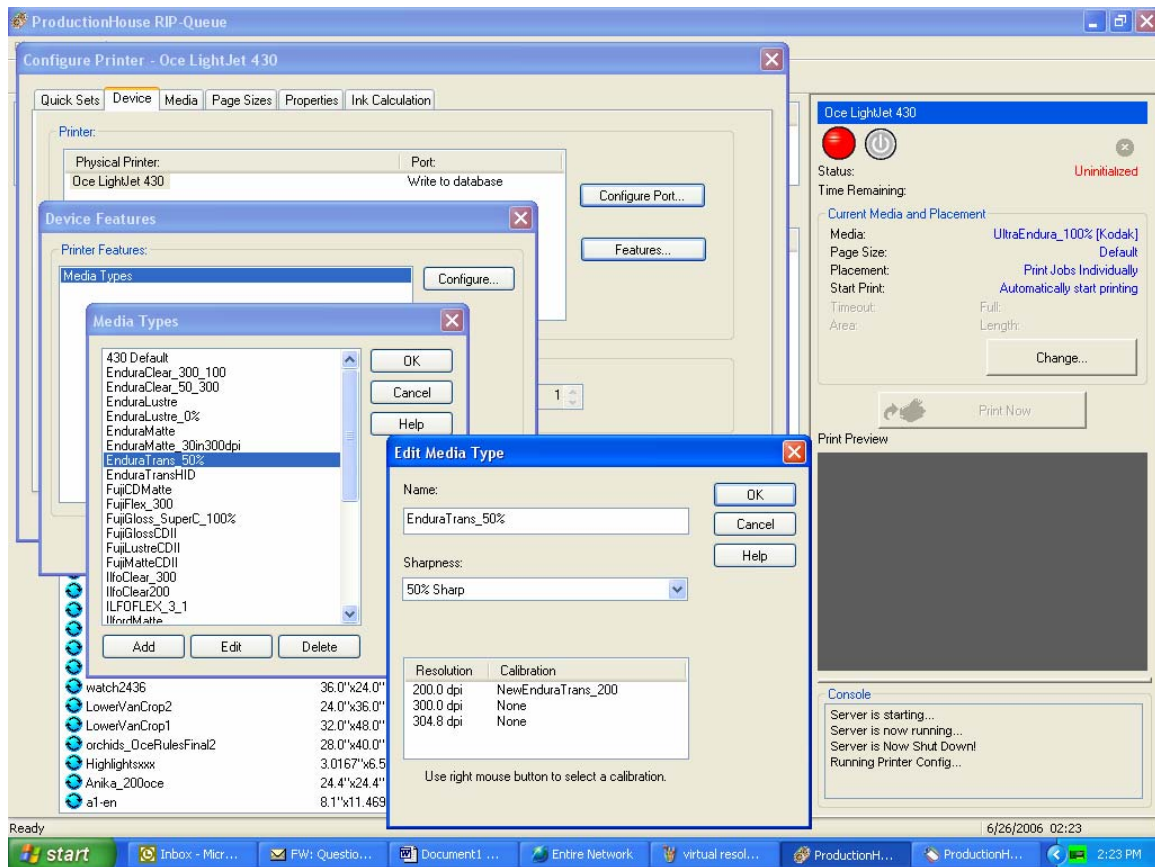
For example, if the original image is 200 dpi and final output size is double the original size, the input resolution for the desired final image size is  $200/2 = 100$  dpi.

2. Select a virtual resolution (input resolution for desired final image size @ output resolution; e.g., 100@300). There is a list of common virtual resolutions you can pick from (See the screen shot below).

Note: If the virtual resolution you desire does not exist you can create it by selecting Media Manager/Media/Resolutions and Dot Patterns.



3. For optimal results you may need to adjust the sharpness level associated with the media to reduce over-sharpening by the LightJet. Sharpening done by the LightJet magnifies low-res artifacts as the process is exponential. This is especially important when working with very low-res files (for example, interpolating 50dpi to 300dpi). The typical sharpness values range between 0 and 100 percent. Use lower values for lower dpi images.
4. To change the sharpness, it must be changed for the particular media. To do this, select the media from the menu Configure Printer/Device Features/Media Types/Edit Media Types.



5. Enter the amount of sharpening required for that media and click OK.

For further information, please contact your local Océ Service Office.

## 2) PosterShop Interpolation:

PosterShop uses bi-cubic interpolation when "Process with Interpolation" is enabled.

### Advantages:

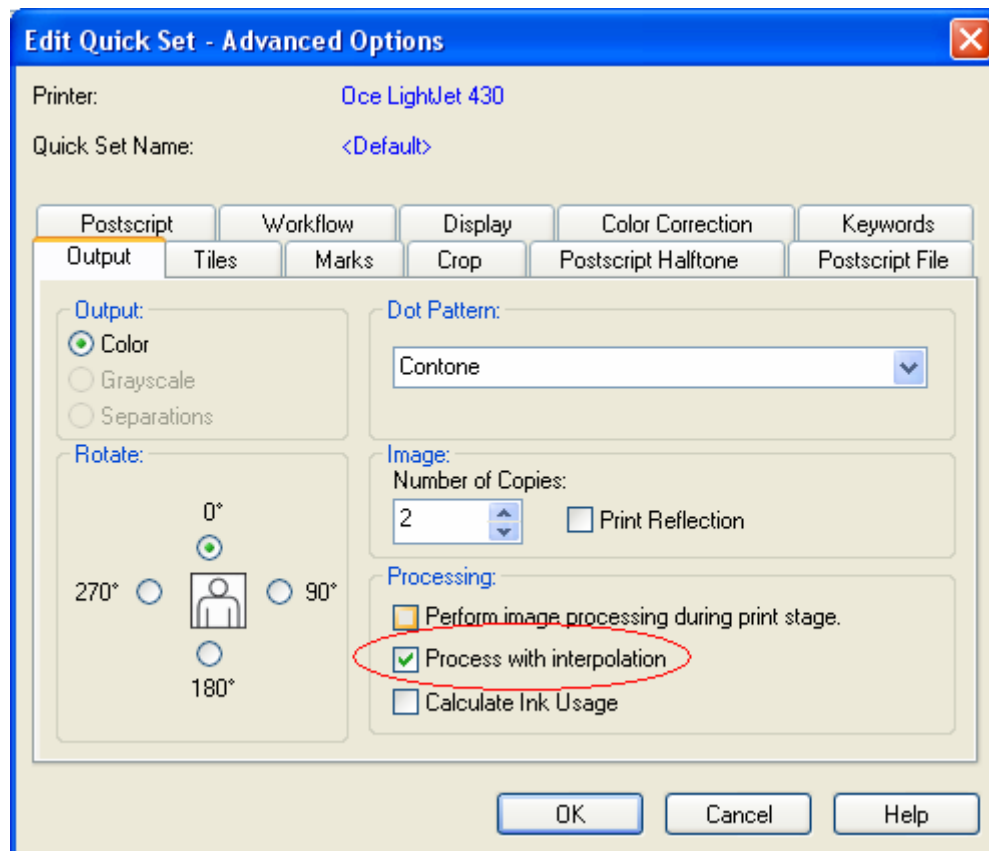
- Allows images of different resolutions to be re-processed to the same resolution and therefore be placed together on the same print page, thus saving media.
- Bi-cubic interpolation improves the quality of images that are scaled down as well as up.
- Easy to setup and use.
- Better image quality than using the PosterShop default "nearest neighbor" interpolation algorithm.

### Disadvantages:

- Image quality is not as good as using LightJet Interpolation.
- Creates a larger file size resulting in a longer transfer to the LightJet computer and slightly longer processing times.

### How to Use:

Select the "Process with Interpolation" box in Advanced Options/Output tab of a Quick Set, and then open a job using this Quick Set.



For further information, please contact your local Océ Service Office.

## B) Vector Image Setup:

We recommend that you use anti-aliasing on all vector images.

### Advantages:

- Smoother vector edges, improved image quality.

### Disadvantages:

- Increase in processing time.
- Use a high anti-aliasing amount may soften raster images embedded in PostScript data.

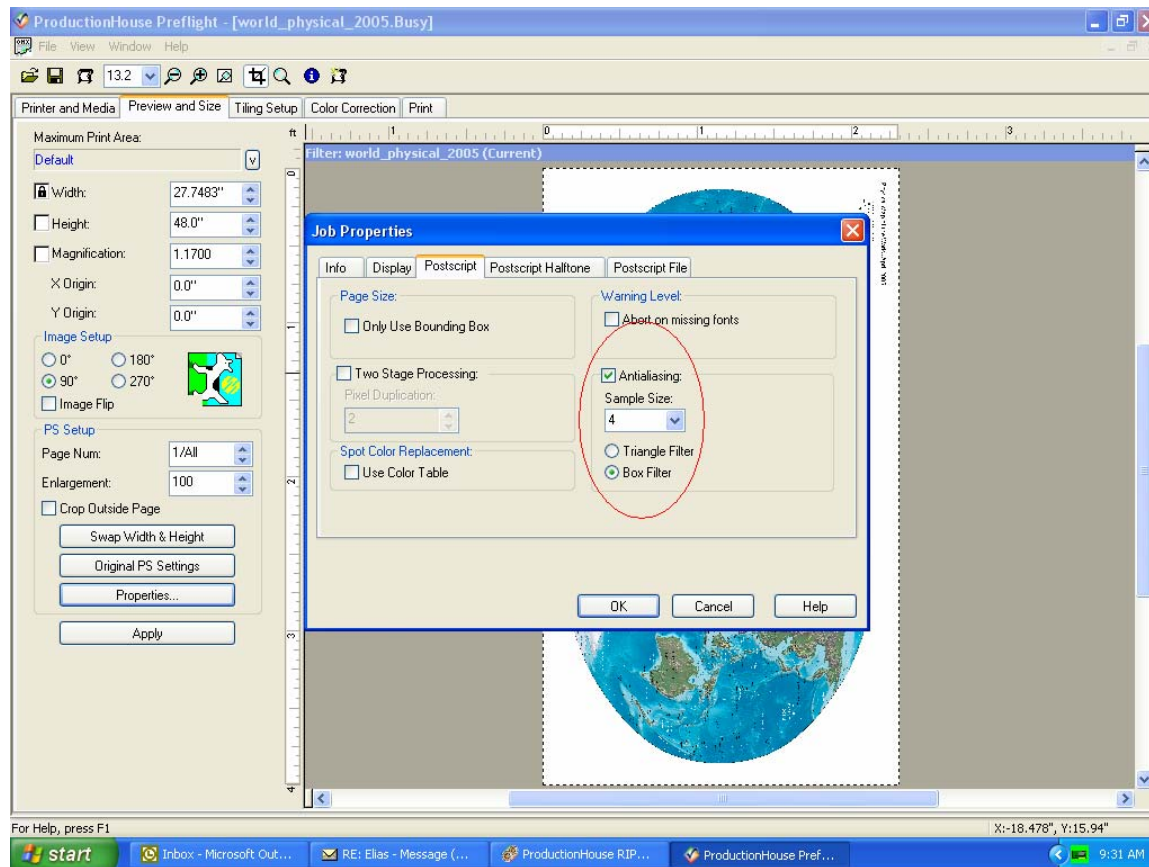
### How to Use:

The recommended value that is a good compromise between RIP time and image quality is a 4X box type filter.

Best quality is always obtained using highest resolution, but to reduce Rip and transfer time we recommend Ripping at 150 dpi and outputting at 300dpi (making use of virtual resolutions as described above).

Select anti-aliasing from within Preflight, or set up in a Quickset.

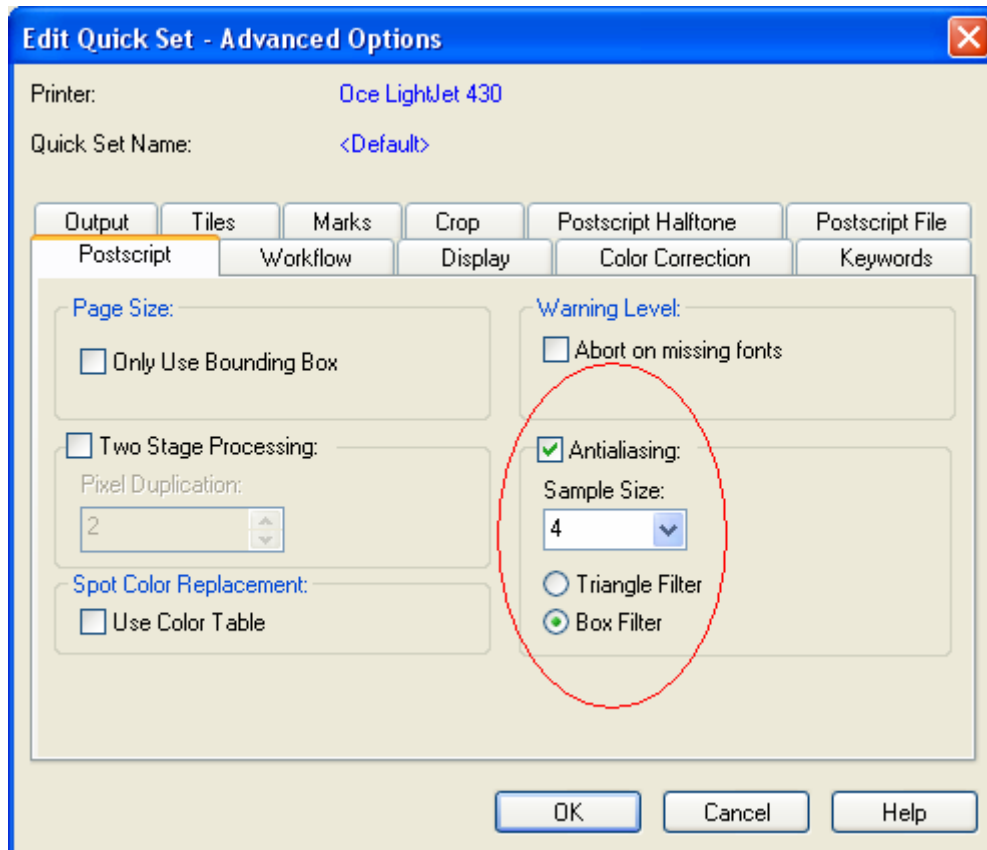
### How to select anti-aliasing from Preflight:



For further information, please contact your local Océ Service Office.

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## How to select anti-aliasing in a Quickset:



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