

PRINT RESOLUTION REFERENCE

a guide to pixel dimensions for specific print sizes at specific print resolutions

		PRINT SIZE					
		4" x 6"	5" x 7"	8" x 10"	11" x 17"	16" x 20"	
PRINT SIZE	72 ppi	288 x 432 .4 MB	360 x 504 .6 MB	576 x 720 1.2 MB	792 x 1224 2.8 MB	1152 x 1440 4.8 MB	POOR
	150 ppi	600 x 900 1.5 MB	750 x 1050 2.3 MB	1200 x 1500 5.2 MB	1650 x 2550 12 MB	2400 x 3000 20.6 MB	OK
	200 ppi	800 x 1200 2.8 MB	1000 x 1400 4 MB	1600 x 2000 9.2 MB	2200 x 3400 21.4 MB	3200 x 4000 36.6 MB	
	250 ppi	1000 x 1500 4.3 MB	1250 x 1750 6.3 MB	2000 x 2500 14.2 MB	2750 x 4250 33.4 MB	4000 x 5000 57.2 MB	PRINT QUALITY: BEST
	300 ppi	1200 x 1800 6.2 MB	1500 x 2100 9 MB	2400 x 3000 20.6 MB	3300 x 5100 48.2 MB	4800 x 6000 82.4 MB	
	350 ppi	1400 x 2100 8.4 MB	1750 x 2450 12.3 MB	2800 x 3500 28 MB	3850 x 5950 65.5 MB	5600 x 7000 112.2 MB	

NOTE: File size shown is approximate size of image as an RGB TIFF.

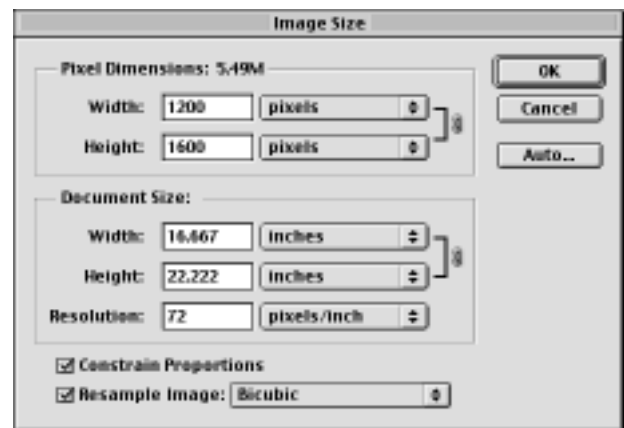
How to use this chart

This chart is designed to assist in the determination of resolution requirements for printing. The print resolution (ppi = pixels per inch) is listed along the side and the physical printed size is listed across the top. Use this as a reference for figuring out what sort of resolution you need to reproduce an image.

First, determine the resolution needed depending on the device you are printing to. Offset press usually runs between 300 and 355 ppi, desktop printers, between 200 and 300 ppi, large-format banners and posters around 150 (this is low because the prints are not meant to be viewed up close.)

Then, compare the size of your image to the resolution needed. For example, a 9MB file should reproduce fine as a 5" x 7" image in a brochure, and could be printed up to 8" x 10" off of a good desktop photo printer without any visible loss of quality.

Additionally, you can employ Photoshop's "Image Size" menu. Pull this up for any image and experiment with the values (be sure to hit **Cancel** if you are just experimenting). Unclick



Photoshop's Image Size menu

Resample Image and change the **Document Size** (keeping **Constrain Proportions** checked) to see how it effects resolution. Notice that the number of pixels, and file size would remain the same, as you are not adding or removing pixels; this is just changing how many appear per printed inch.