

Resolution ABC's

Assume you are scanning a 1-inch square object



1" or 200 dots wide when
scanned at 200 dpi

For Printing

1. If scanned at 240 dpi & printed at 240 dpi, output will be 1" by 1"
2. If scanned at 480 dpi & printed at 240 dpi, output will be 2" by 2"
3. If scanned at 240 dpi & printed at 480 dpi, output will be ½" by ½"
4. Must scan at 1920 dpi & print at 240 dpi for output to be 8" by 8". In other words, to enlarge by 8 times, you must scan at 8 times the final output resolution. This obviously spreads the dot far apart and results in a spotty or pixilated image.

For viewing on the Screen

1. If scanned at 240 dpi, the output on a screen using a monitor set at 1920 by 1080 width will be 1/7 of the screen or 240 pixels wide. The height will be 1/5 of the screen.
2. Must scan at 2000 dpi to completely fill screen width.