

Resolution Formula

Use this handy formula to calculate the resolution your raster images will require for large format printing

- Resolution Formula:

$$\frac{\text{Width of final graphic (inches)}}{\text{Width of original (inches)} \times \text{Desired resolution (PPI)}}$$

- Example A:

A 5"w x 4"h transparency image that needs to fill the entire background of a 72"w x 96"h graphic:

$$\frac{72''}{5'' \times 100 \text{ ppi}} = 1,440 \text{ ppi} \quad * \text{The transparency needs to be scanned at 100\% @ 1,440 ppi.}$$

- Example B:

A stock photo 20"w that needs to fill the entire background of a 72"w x 96"h graphic:

$$\frac{72''}{20'' \times 100 \text{ ppi}} = 360 \text{ ppi} \quad * \text{The stock photo needs to have a minimum resolution of 360 ppi.}$$