

Printing Black-and-White Images Without KODAK Black-and-White Papers

There are alternative photographic printing techniques available to produce black-and-white prints from film or digital files. In addition, there are a number of 'non-photographic' printing technologies that give you even more ways to make black-and-white prints—inkjet printers, thermal printers, commercial offset, and electrophotography, to name but a few.

Below we focus on both inkjet and photographic printing techniques. Which you choose will depend on your personal preference and the application for which the print is being used.

KODAK PROFESSIONAL INKJET PHOTO PAPER



This photographic-quality paper is designed for professionals to meet their demanding standards.

- Available in Glossy (F) and Lustre (E) surfaces in roll and sheet formats
- Excellent compatibility with dye- and pigment-based inkjet printers
- Custom ICC profiles for popular CANON and EPSON Photo Printers to ensure optimum quality are available for downloading at www.kodak.com/go/proinkjet.

With inkjet printers, the printheads spray droplets of CMYK ink onto the paper to create the image. For best black-and-white results, use a printer that has additional black and gray ink cartridges or several tones of black. This eliminates the color bias that you could encounter with printers that make up shades of gray from colored CMYK inks.

Inkjet printing eliminates the need to use a darkroom and photographic chemicals, and offers many printing options including the potential to make large prints (limited by the capacity of your printer) on papers with a variety of surfaces.

KODAK PROFESSIONAL ENDURA PAPERS



You have two options for making black-and-white prints using color photographic negative papers:

- Go to a Pro Lab and ask for their B&W Printing Service using KODAK PROFESSIONAL ENDURA Paper. (To find a Pro Lab near you, go to www.kodak.com/go/prolablocator.)
- Print and process in your own studio. (Note: This media requires RA-4 processing; it is usually not a convenient option for home darkroom users.)

Digital Printing of Image Files

If you will be making your prints with a digital printer, scan your negatives to file. To optimize print quality, convert your files to grayscale.

You can expose KODAK PROFESSIONAL ENDURA Papers and other KODAK Color Negative Papers with many types of digital printers. For starting values for a

range of digital printers from Kodak and other manufacturers refer to www.kodak.com/go/endura or www.kodak.com/go/colorprofiles.

ICC color profiles for use with KODAK PROFESSIONAL Color Negative Papers are available for download at www.kodak.com/go/proinkjet

Optical Printing of Black-and-White Negatives

You can also print black-and-white negatives onto ENDURA Papers.

Three exposing methods provide excellent results:

- Put a piece of unexposed, processed (D-min) KODAK PROFESSIONAL PORTRA Film in the exposing beam along with the filters you normally use to print color negatives.
- Simulate a piece of film D-min by adding CC35M and CC65Y filtration to the filtration that you use to print color negatives.
- Use a starting filter pack of 80M + 110Y to simulate the 45M + 45Y of the film D-min.

Viewing

We recommend viewing your prints under final display lighting conditions. The color quality of your viewing light can contribute to hue variations (illuminant sensitivity). This phenomenon is called metamerism—colors look the same under one type of lighting (e.g. tungsten), but look different under a different type of lighting (e.g. fluorescent). In other words, your black-and-white prints may look neutral under one kind of lighting but have an undesirable tint under another.

Use a light source such as daylight, tungsten, or tungsten-halogen/quartz-halogen. These sources provide continuous frequency of energy in the visible spectrum and will result in a neutral rendering of the image. Average viewing conditions use a light source with a color temperature of 5000 ± 1000 K, a Color Rendering Index (CRI) of 85 to 100, and an illuminance of at least 50 footcandles (538 lux).

OTHER MANUFACTURERS' TRADITIONAL B & W PHOTOGRAPHIC PAPERS

For photographers who continue to prefer traditional black-and-white papers, there are still some specialized manufacturers who offer both resin-coated (RC) and fiber-base media. We recommend contacting your local photo reseller.

