



Linearization with K3 inks

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1 Used system configuration

This article relates to the following system configuration:

Software version:

EFI Colorproof XF v2.5 / v2.6

Miscellaneous:

Also applicable for products version 5 with Color Manager.

Not suitable for products version 5 without Color Manager as some tools are not available in LinTool.

2 Topics

This article gives a quick overview of how to use EFI LinTool or EFI Color Manager in order to create a base linearization with the Epson K3 inks. Furthermore, it will provide information about which EFI papers have been successfully tested with the K3 inks. Therefore, the article contains two topics:

- The correct settings during linearization
- The right media for Epson K3 inks

2.1 The correct settings during linearization

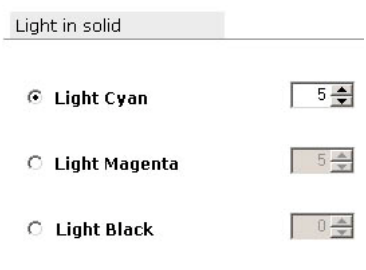
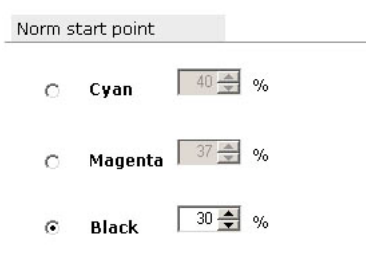
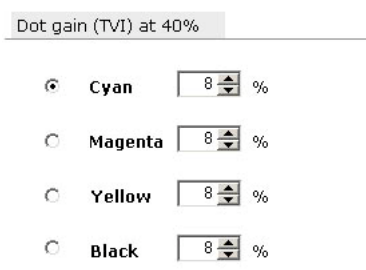
2.1.1 General explanation

The creation of a base linearization for Epson K3 inks differs from the well known procedure. The reason is because the K3 inks use three blacks compared to the former UltraChrome inks which use only a norm black and a light black. The K3 inks consist of

- norm black
- light black
- light light black.

First of all, it is important to know that norm black and light black are treated as one channel during the linearization process and will be separated later on in the printer driver. The light curve which is editable in EFI Lintool and EFI Color Manager will affect the Epson light light black ink (but not the light black).

2.1.2 Recommended settings

Resolution	1440 x 720	
Dot Size	Variable fine	
Light in solid	<p>Light in solid for Cyan and Magenta can stay "as is". The light in solid setting for "Light Black" should be reduced to 0%. This will reduce the amount of light light black in the darker areas.</p>	
Norm starting point	<p>The norm starting points for Cyan and Magenta can be taken as calculated. The norm starting point for black should be 30%. Alternatively, it is also possible to use an earlier starting point for Cyan or Magenta.</p>	
Dot gain	<p>Change the default values to around 8, 8, 8, 8. This is very important to avoid contouring.</p>	

2.1.3 Advantage

The recommended settings reduce the amount of light ink in general and therefore the amount of liquid on the paper. This ensures smoother gradations and no contouring.

2.2 The right media for Epson K3 inks

2.2.1 General information

EFI Remoteproof Paper 9180 Semimatt is one of the most popular print media in our extensive range of EFI papers. Although its top quality is proven both by the visual color impression it creates and by the result of measuring color values, you should nonetheless consider its suitability for use, based on the intended field of application and the printer being used.

Recent past experience has shown that when used in conjunction with Epson printers with UltraChrome K3 inks, the ISO Coated PT1/2 measurement in Magenta is not quite achieved. The correct value is however reached on our popular paper EFI Proof 8180 Semiglossy. Further EFI print media of interest are:

- EFI Offset Proof 9200 Semimatt
- EFI Premium Proof 8260 Semiglossy
- EFI Gravure Proof 4245 Semimatt