



Total Ink Limit Add-On

For EFI Fiery / Colorproof XF 3.1.8 (X-Pack 8)

Document version 1.0

Why should I install this Add-On?

The content of this add-on will help you define the total ink limit for printers & media where physical effects like bleeding and mottling may occur during the **linearization**. These effects cannot be detected by spectral photometers, but they can be seen "visually". This add-on allows you to find the appropriate total ink limit setting to avoid these effects. We strongly recommend to install this add-on if you are working with printers like the **Epson GS6000**. Both the CMYK as well as the CMYKOG and CMYKRGB total ink limit charts will be replaced by this add-on.

Prerequisites

Before installing this add-on, make sure you have either Fiery or Colorproof XF **X-Pack 8 (3.1.8)** installed on your Mac / PC.

Content of the add-on

This add-on will replace with newer versions the total ink limit charts for all supported measuring devices. These new versions contain both patches for a numeric TIL measurement as well as an additional chart that allows you to define a visual total ink limit. We highly recommend that you work with these enhanced total ink limit charts, for instance, with the Epson GS-6000. However, once installed, the charts can be used for any printer. The additional visual component in the total ink limit chart enables you to detect and avoid mottling and bleeding effects. Traditionally, bleeding and mottling are effects that cannot be detected by a spectrophotometer.

Installation

Download the add-on:

[Windows]

http://liveupdate.efi.com/grad/4157/EFI_TIL_PC.zip

[Macintosh]

http://liveupdate.efi.com/grad/4158/EFI_TIL_MAC.tgz

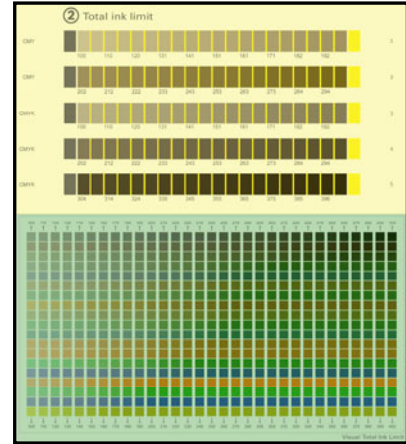
Double-click the add-on installer (*.exe for PC and .dmg for Mac*). This will guide you through the installation process. The server and client will be closed down during the installation. Please note that you will have to repeat the installation for any client that you would like to enhance with this add-on.

Working with the add-on

The add-on will be evident once you start Color Manager in order to perform a linearization. The second step of the installation, after the "Setup", is the "Total Ink Limit". Print the Total Ink Limit chart on your printer by clicking on "Print" in Color Manager. You will see that the Total Ink Limit Chart now consists of *two* components.

First there is the "**Total Ink Limit**" chart (top). This is intended to be measured if you want XF to calculate the total ink limit automatically – you are familiar with this chart already. This calculated total ink limit value does *not* take possible bleeding or mottling effects into account.

The *second* component is the "**Visual Total Ink Limit**" (bottom). This is an alternative (not an addition) to the measured "Total Ink Limit" chart. The advantage is that you can visually take bleeding and/or mottling effects into account and manually "correct" the total ink limit in XF.



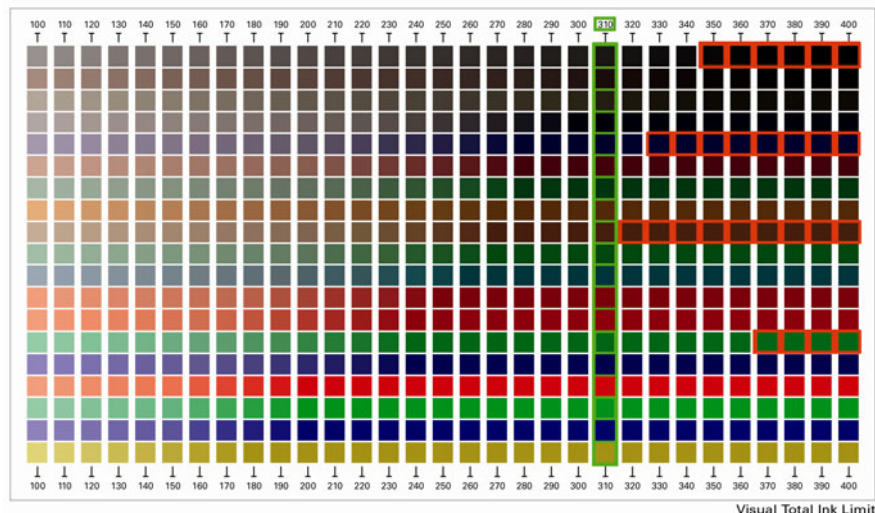
The "Visual Total Ink Limit" chart consists of color patches arranged in columns, with the total ink limit increasing progressively for each column as you move from left to right. The appropriate percentage is displayed at the top and bottom of each column.

In order to find the optimal visual total ink limit, you should examine all the columns and rows of the chart and search for patches that exhibit bleeding and/or mottling effects.

For instance, if you determine bleeding in row 1 at 350% and higher, in row 5 at 330% and higher, in row 9 at 320% and higher and in row 14 at 370% and higher, then the TIL you should set up in XF is **310%**, i.e. one column to the left of the 320% patch in row 9 in which undesired visual effects are first observed.

Enter this total ink limit value in Color Manager and proceed with "Next".

The following screenshot illustrates the above example visually. Let us assume that the patches marked in **red** would show bleeding effects on your printout. In this case, the column (**green**) with the total ink limit percentage of 310% represents the column with the highest total ink limit that has no unwanted visible effects in any patch of the column – this is the total ink limit you will want to enter into XF.





If you do not see *any* bleeding or mottling in any of the patches, then you can simply trust the total ink limit calculation of XF and measure the "Total Ink Limit" chart.

Ink Limit per Channel

You might notice that the patches in between the primary colors seem to be brighter for the Epson GS-6000 printer. This is no cause to worry. We are aware that some customers have been using these patches to evaluate the total ink limit, but this is no longer needed once you have installed the updated total ink limit charts.

Please ignore the brighter patches in the ink limit per channel step and consider only the primary colors and their ink limits. The total ink limit is meant to be defined in the total ink limit step (2), not in the ink limit per channel step (3).