



# KIP Spot Color User Guide

# KIP Spot Color User Guide



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# KIP Spot Color User Guide



The new KIP computerized spot color matching system provides quick and accurate color matches. Now, instead of having to settle for a color that's merely "close" to what you need, you can get exactly the color you want. With our advanced spot color matching Guide, your spot color will always be right on target.

## Overview

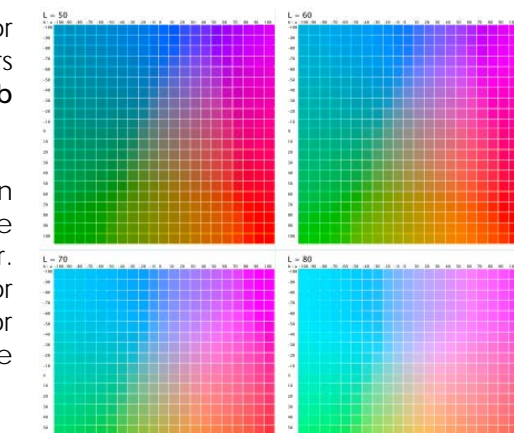
Every printer has a defined "color gamut". This means that no printer can produce every color that the eye can see. The new Spot Color Chart provided for the KIP Color printers allows operators to better match spot colors required by a customer.

### Requirements:

- KIP Color RIP software
- KIP Color Spot Color Chart located on the KIP Color Demo Sample CD.

### Quick Facts:

- The KIP Color Demo Sample CD contains the **KIP Spot Color Chart.TIF**
- Three different versions can be printed. One for each print mode: Line, Graphic and Photo.
- The chart is surrounded with cut marks to make it easy to trim into easy to handle 18" x 18" pages. Assembled as a book, it is easy to present to a customer and demonstrate the color range of the KIP Color Printer.
- By placing your Original Image or a color swatch on the Spot Color Chart, operators or customers can locate the **L**, **a**, and **b** values that best match the original.
- Utilizing the **KIP RIP software**, the operator can open the customers file and use the mouse to select the original Spot Color. By entering the new L, a, and b color values they can perform a Color Exchange to replace the original.(see example below)



KIP Spot Color Chart

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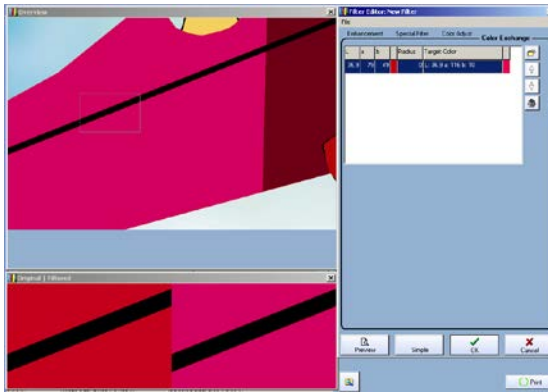


*Example, if the color in a certain area of a printed image requires adjustment, the operator may choose the correct color using the KIP Spot Color Chart and quickly exchange the color for the correct one!*

This is the color I want to adjust.



Original Image



Spot Color Exchange

**Color Exchange**

Source Color

L	60
a	60
b	20

Radius: 0

Target Color

Lab    RGB    CMYK    HKS    User defined

L	32.5
a	98
b	20

Current Spot Color

New Spot Color



## KIP Color Printer Spot Color Guide

### *Print the Spot Color Chart*

From the KIP Home screen on the KIP IPS or from a PC workstation where KIP RIP is installed, open the KIP RIP software:

**1.** Insert the KIP Color Sample CD into your drive and locate the **Samples** folder, then the **Spot Color Chart** folder and select the **KIP Spot Color Chart.tif**

**2.** Choose desired **Print Mode**. Selection is based on the type of image printed, (either Line, Graphic, Photo or other User Defined Setting). In order to review the complete range of colors please print the chart using the Line, Graphic, and Photo modes.



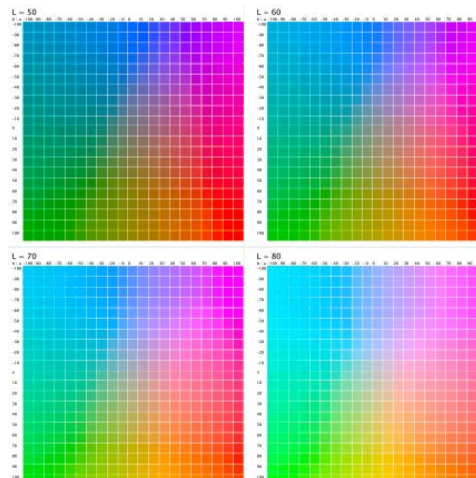
**3.** Users may adjust **Color Management** settings and apply an ICC profile if desired.



**4.** Select **Print**.



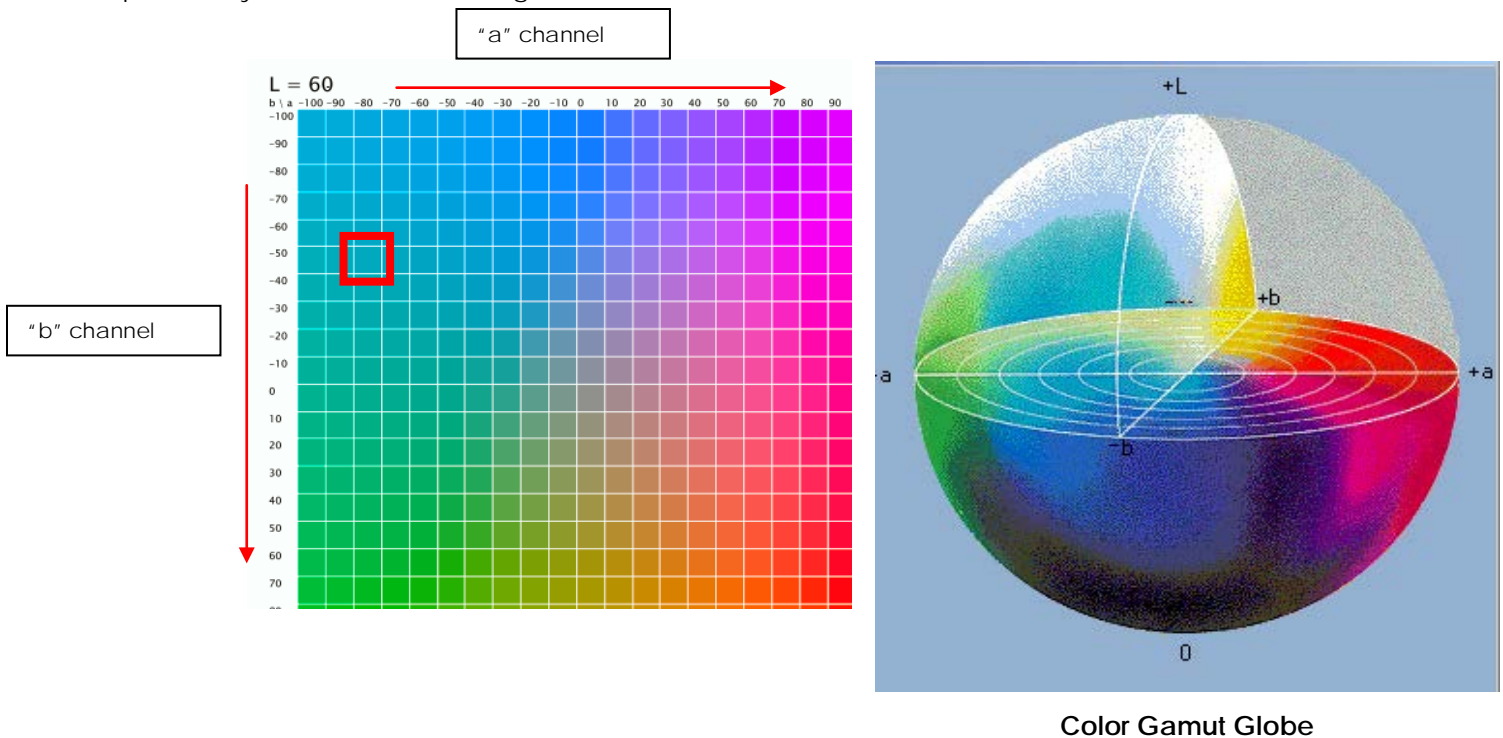
**5.** The KIP Spot Color Chart has been designed to be hung on a wall for easy reference or to be cut into sections for easy handling. The chart is surrounded with cut marks to make it easy to trim into easy to handle 18" x 18" pages. Assembled as a book, it is simple to present to a customer and demonstrate the color range of the KIP printer.



## Reading the Spot Color Chart

The KIP Spot Color Chart represents slices of the KIP printable Color Gamut Globe. **L**, **a**, and **b** each represent one axes of the Color Gamut Globe shown. **L** controls the Luminance or brightness, **a** controls the channel for Green to Red and **b** controls the channel for Yellow to Blue colors. The Chart shows the slices from  $L = 0$  to  $L = 100$ , the full range of luminance. The other rows and columns of the Chart represent the **a** and **b** channels.

**Example:** The red highlighted area below identifies  $L = 60$ ,  $a = -80$ ,  $b = -50$ . This color can be selected to replace any other color in an original file.





## Using the Spot Color Chart

### Identify the new Spot Color

Once the Spot Color on the original image is identified, match it to the best selection on the Spot Color Chart and record the **L**, **a**, and **b** values.

1. Identify the spot color on your Original Image.



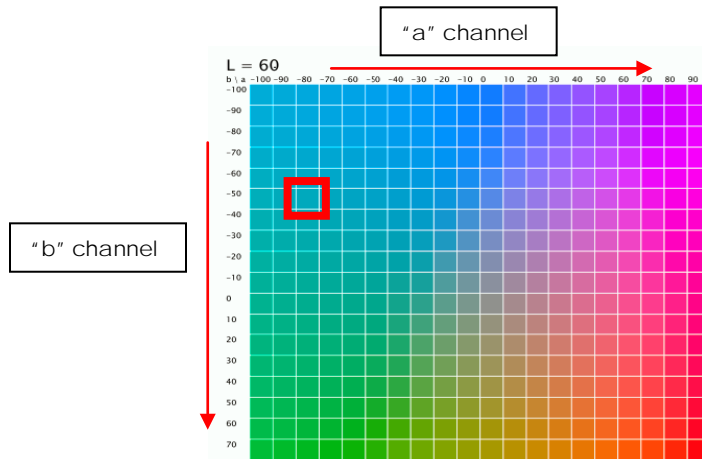
This is the color that I wish to exchange.

This is an example of a gradient color that cannot be exchanged.

Original Image

**Note:** The color replacement only affects the identified color and not any gradient areas. This is because the gradient color changes several times as it goes from "light" to "dark" and is not consistent. The color exchange will only work with consistent solid colors.

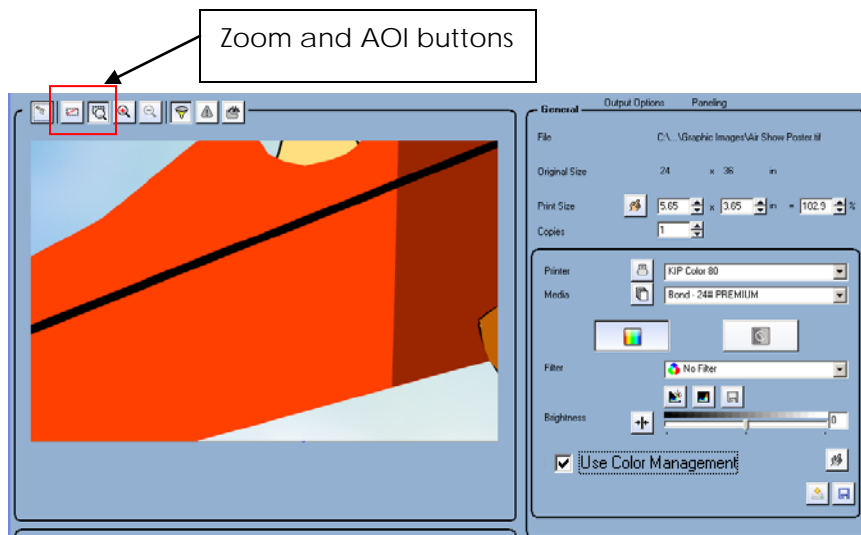
2. By placing your Original Image or a color swatch on the Spot Color Chart, operators or customers can locate the new **L**, **a**, and **b** values that best match the desired color.



## Creating a new Spot Color

*Locate the area that requires the Spot Color to exchange.*

1. Open the document using **KIP RIP** software, Enable **Color Management** and set the necessary Color Management parameters. Eg: (**Rendering Intent**, **RGB ICC Profile**= sRGB and **CMYK ICC Profile**= Euroscale or another setting).
2. Zoom into the area using the **Area of Interest** buttons (AOI):



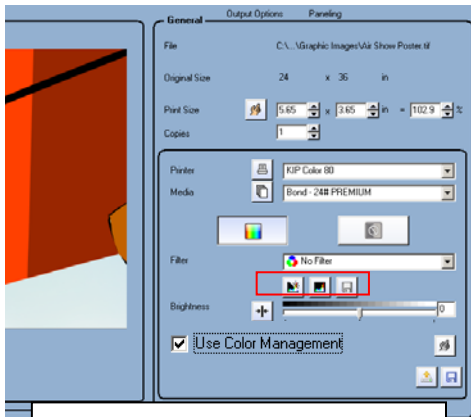
**Note:** For the Spot Color to function in other applications such as KIP Request / PrintNET / AutoCAD / Windows drivers, the Color Management settings noted above must be entered into the PrintNET configuration screen (this is demonstrated later).

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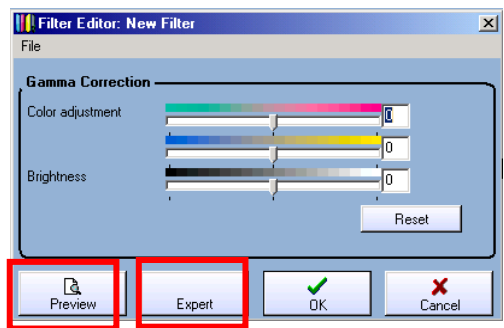


## Build a filter using $L^*a^*b$ values of new spot color

**3.** Build a filter using the **Filter** buttons. When you **Open** the Filter Editor, choose, **Expert**, **Preview**, then **Color Exchange**, to access the screens shown below. It may be necessary to adjust the window placements to conveniently see them all on the same screen.



Open the Filter Editor using these buttons.

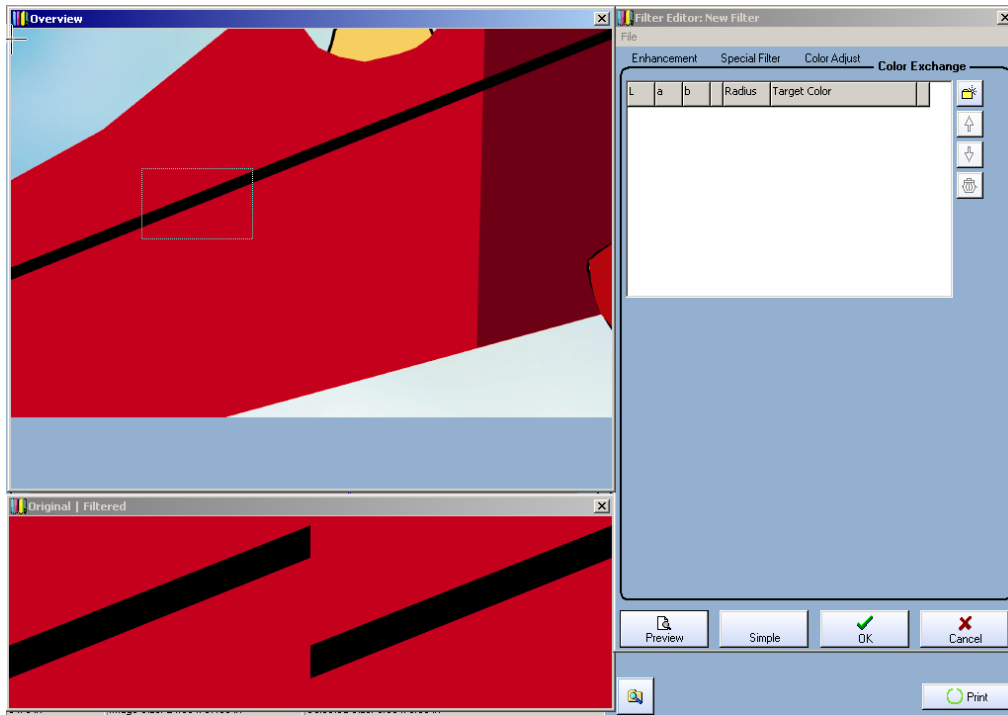


Filter Editor



New Color Exchange

Overview UI



Original vs. Filtered

# KIP Spot Color User Guide

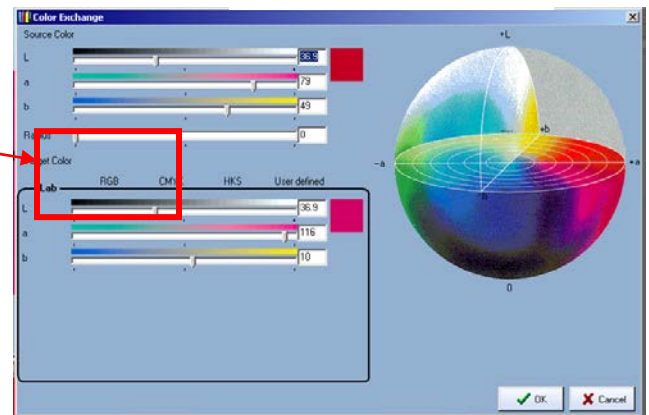


4. Start a new Color Exchange and draw a box INSIDE the spot color you wish to adjust. This can be done in any of the three screens shown. The following Color Exchange UI will automatically appear.



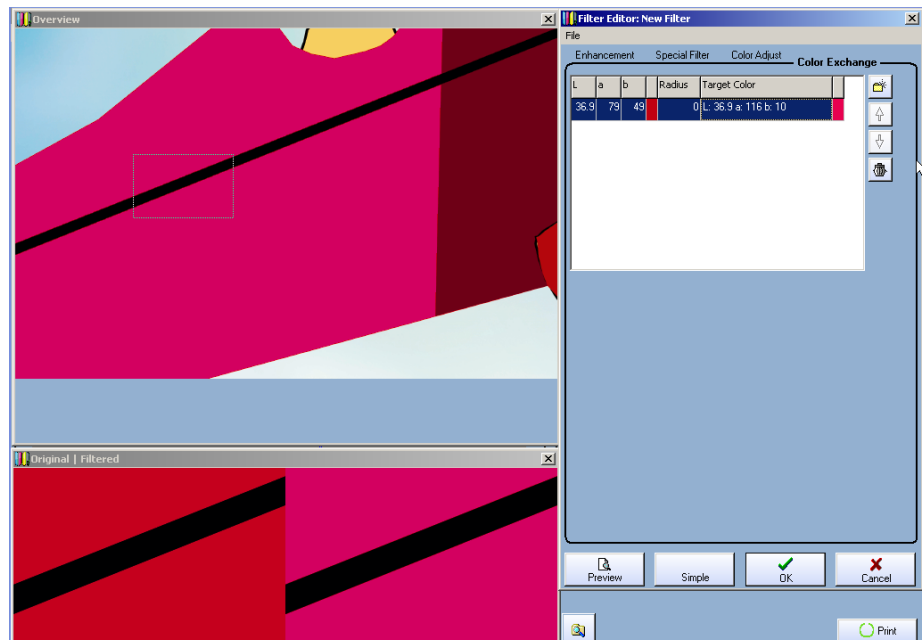
New Color Exchange

5. On the Color Exchange menu ensure that the Lab tab is chosen. Enter the L, a, b numbers identified on the printed Spot Color Guide into the Target Color area and select OK.



6. The new Spot Color will be displayed. Select OK when all color exchanges are complete.

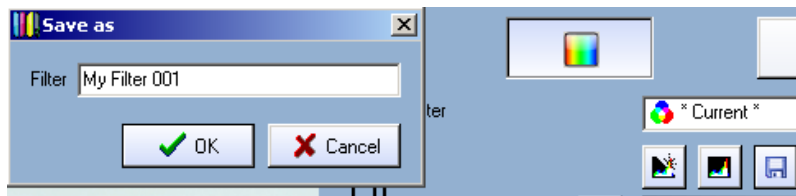
Note: Additional spot colors can be created at this time by selecting the New Color Exchange button again. A filter can contain multiple color exchanges.



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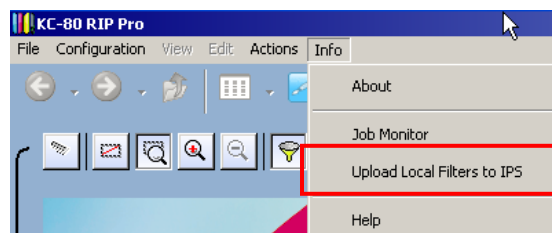
7. Use *Save As*  on main screen to provide a name for the new Spot Color filter.



8. Once the new Spot Color Filter has been saved choose *PRINT* to print the document.

## *Upload New Spot Color Settings to PrintNET for use in KIP software applications.*

If you wish to use the new Spot Color Filter from within KIP Request, KIP PrintNET or Application Drivers, it must be assigned to one of the Color Preset buttons that those programs utilize when printing.



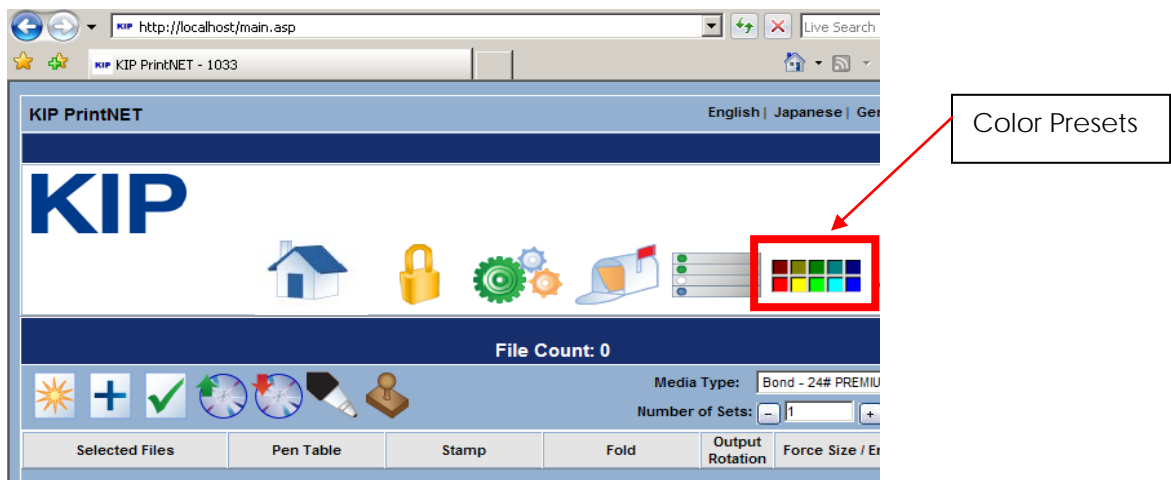
1. **Kip RIP** In the KIP RIP software, upload the newly created filters to the KIP IPS. Once the filters have been uploaded to the KIP printer using KIP RIP, the Filter name can be found in the Color Preset area of PrintNET.

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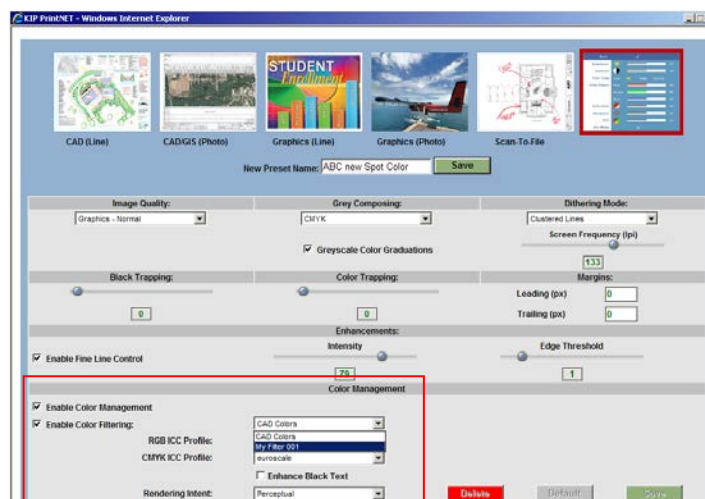


## Using the new Spot Color from other KIP Software applications

**2. KIP PrintNET** Access PrintNET via a web browser and login as **admin** which allows for access and editing of the Color Presets. **Note:** To ensure that KIP Request will show the updated Filter names, please be sure that KIP Request is closed.



**3.** Since the KIP RIP software completed the Filter upload, the new Color Filters containing the Spot Color changes can be assigned to a Color Presets through PrintNET. The Color Filter can be assigned to a **New Preset** or one of the existing buttons (CAD-Line, CAD-GIS, Graphics (Line), Graphics (Photo)). **Important Note:** Ensure that the **Enable Color Management** settings for **RGB ICC Profile**, **CMYK Profile** and **Rendering Intent** are set to the same settings used in KIP RIP at the time the filter was created. If this instruction is not followed, the Color Filter may not work.



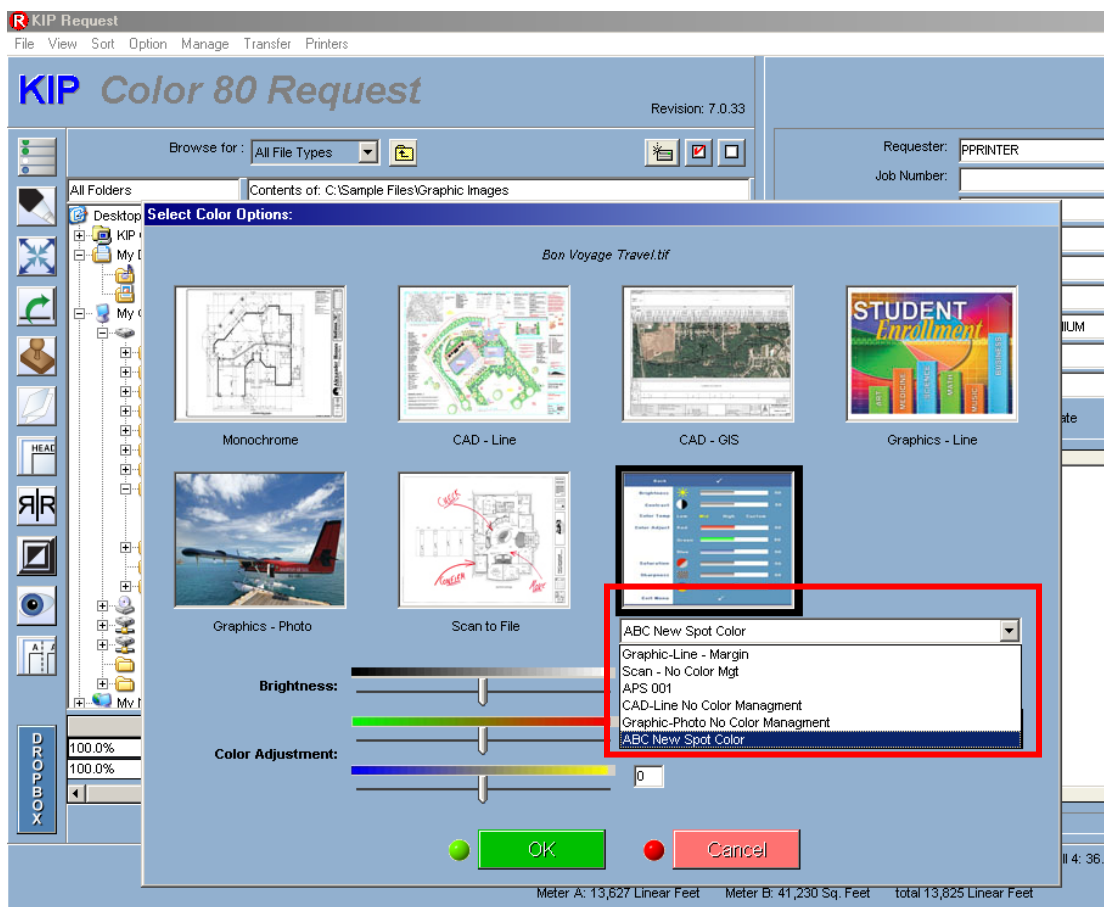
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4. Once the **SAVE** button is selected, the changes are immediate and all documents printed using that particular Color Preset button will utilize the new Color Filter and settings. Restart KIP Request in order for the **New Preset Name** to display in that application.

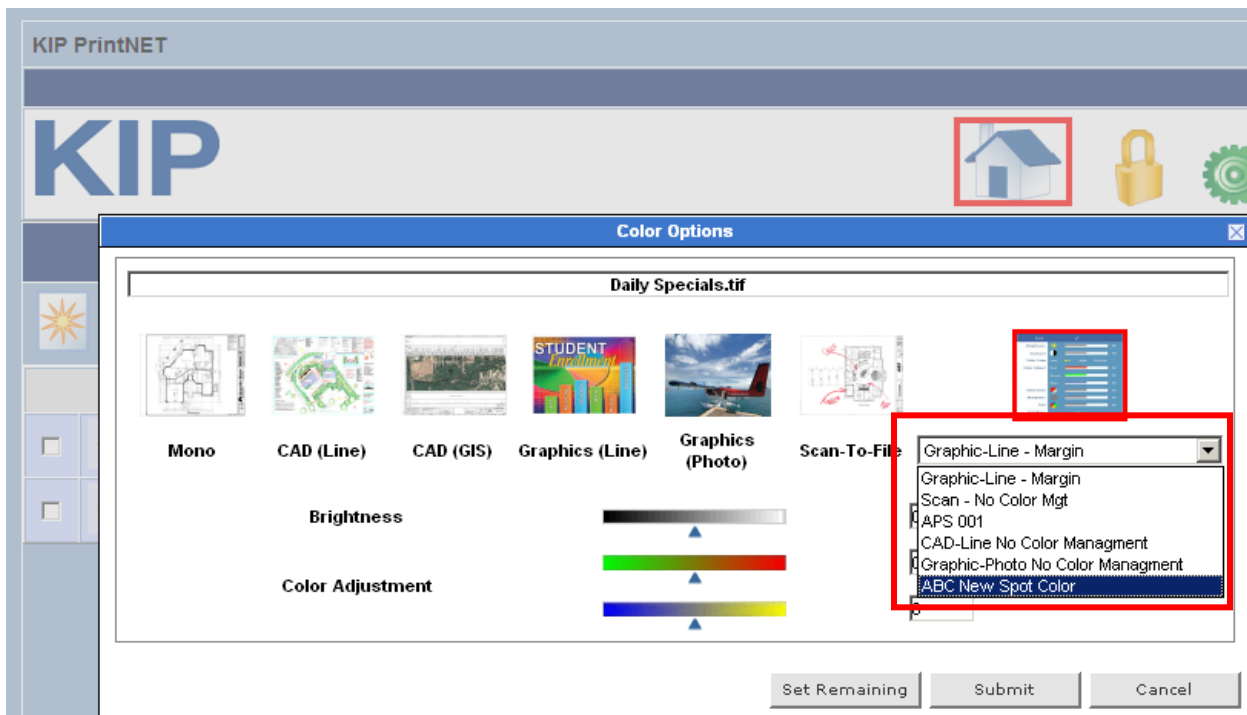
5. **KIP Request** Once step #4 is complete the new Color Presets with the Spot Color change can be accessed from the other KIP software applications.



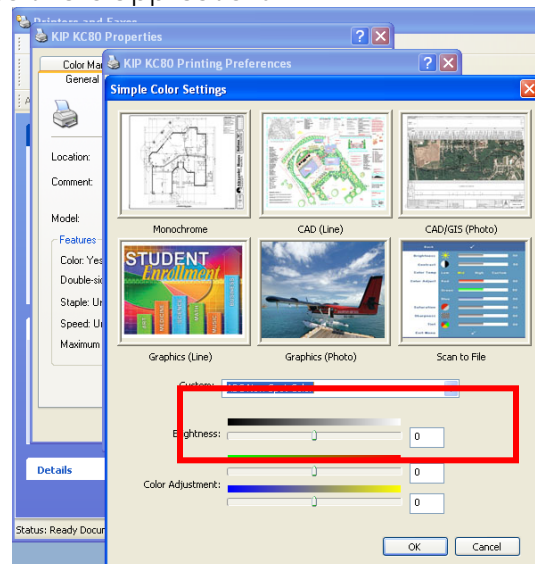
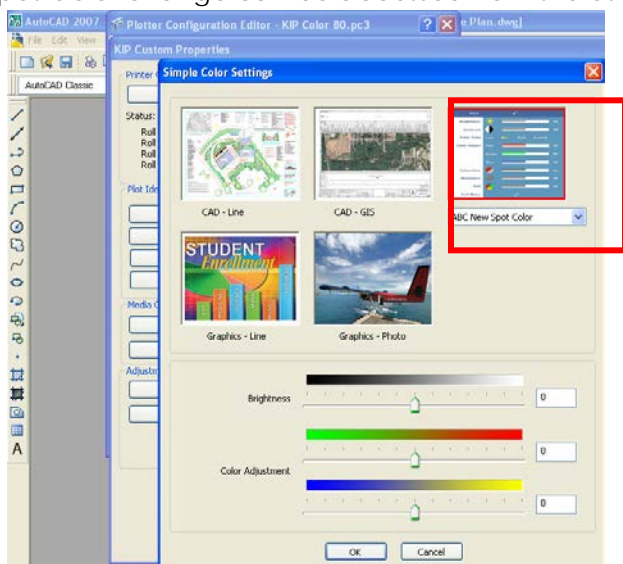
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**6. KIP PrintNET** Once step #4 is complete the new Color Presets with the Spot Color change can be accessed from the other KIP software applications.



**7. KIP AutoCAD and Windows Driver** Once step #4 is complete the new Color Presets with the Spot Color change can be accessed from the other KIP software applications.



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