

Proof a press with CMYK

<u>Application:</u> Adobe Photoshop CS <u>Printer:</u> HP Designjet 30/90/130 series <u>Software</u>: EFI Designer Edition for HP <u>Operating System:</u> Windows



- 1. First recommendations:
  - Some paper types are better than others for proofing, see the <u>Media type functionality &</u> <u>features</u> and choose the most appropriate media.
  - It is essential to have the media type correctly calibrated with the printer and print mode, consult the <u>Calibrate my printer</u> document.
- 2. Open the EFI Designer Edition RIP.
- 3. EFI Designer Edition RIP settings, **Preferences**:
  - Color:
    - o Check the Active Color Management checkbox.
    - **Paper name:** Select the paper type that is loaded on the printer (always calibrated) and "Best" print quality.
    - $\circ$  **Print resolution**: 600 x 600.
    - Color output mode: Proof.
    - You don't need to worry about the profiles and rendering intent because you will select
       Printer Color Management option in the application, then, the application tells the
       RIP which source profile and rendering intent should be used for the conversion to the
       print space, these are the Document profile and the Print Space Intent of the
       application. The RIP color settings will be overridden.

Preferences								×
General Co	olor Layout	Output	Nesting	Printer	Spot Colors	Paper profiles		
✓ Activate Paper sett	Color Manageme	nt						_
Paper n	iame:	HP Premium Plus	Photo and Pro	ofing Gloss	Paper (HP D	YE, Best) 📃 💌		
Print res	solution:	600 x 600		• c	lpi			
Color m	Color mode: CMYKcm			•				
Color settir Color o RGB:	ngs utput mode: AdobeRGB199	Proof 8 icc	Ţ	▼ Percepti	Jal		-	2
CMYK:		lef_Presssheet_200	)3.icc 🔻			no paper white)	-	
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	Vse embedd	ded profiles		□ Solid	black:	0.0% -		
Reset settings	Save Prefs	Load Prefs				Cancel		ОК

- OK
- 4. Open Adobe Photoshop CS.
- 5. Configure the Color Settings, Edit menu > Color Settings...:
  - Make sure the **Advanced Mode** check box is ticked.

- Working Space > RGB: Adobe RGB (1998).
- Working Space > CMYK: Euroscale Coated v2 (for Europe), U.S. Web Coated (for SWOP) v2 (US) and Japan Standard v2 (for Japan).
- Color Management Policies: Preserve the embedded profiles.
- Profile Mismatches: check Ask When Opening and Ask When Pasting.
- Missing Profiles: check Ask When Opening.
- Conversion Options > Intent: Perceptual (RGB images) or Relative Colorimetric (CMYK images).

Color Setti	ngs	X
S <u>e</u> ttings	: Custom 💌	
Advanc	ed Mode	
	ig Spaces	Cancel
<u>R</u> GB:	Adobe RGB (1998)	
<u>с</u> МҮК:	Euroscale Coated v2	Load
<u>G</u> ray:	Dot Gain 15% 🛛 👻	<u>S</u> ave
Sp <u>o</u> t:	Dot Gain 15% 🛛 💙	
- Color N	Aanagement Policies	Preview
RG <u>B</u> :	Preserve Embedded Profiles 🛛 💙	
С <u>М</u> ҮК:	Preserve Embedded Profiles 🛛 💉	
Gra <u>y</u> :	Preserve Embedded Profiles 🛛 💉	
	lismatches: 🗹 As <u>k</u> When Opening 🔽 Ask <u>W</u> hen Pasting ng Profiles: 🔽 Ask W <u>h</u> en Opening	
- Conver	sion Options	
Engine:	Adobe (ACE)	
Intent:	Perceptual 💌	
🗹 Use B	Black Point Compensation 🛛 Use Dither (8-bit/channel images)	
Desa;	ed Controls turate Monitor Colors By: 20 % IRGB Colors <u>U</u> sing Gamma: 1.00 otion	

- Click OK
- 6. Open the image, **File menu > Open**...:
  - If the document has an embedded color profile that does not match the current working space, select **Use the embedded profile**. Otherwise, select **Assign working space**.

Embedded Profile Mismatch				
The document "document.tif" has an embedded color profile that does not match the current RGB working space.				
Embedded: sRGB IEC61966-2.1				
Working: Adobe RGB (1998)				
- How do you want to proceed?				
⊙ Use the embedded profile (instead of the working space)				
Convert document's colors to the working space				
O Discard the embedded profile (don't color manage)				
OK Cancel Missing Profile				
The RGB document "document.tif" does not have an embedded color profile.				
How do you want to proceed?				
O Leave as is (don't color manage)				
Assign working RGB: Adobe RGB (1998)				
Assign profile: sRGB IEC61966-2.1				
and then convert document to working RGB				
OK Cance				

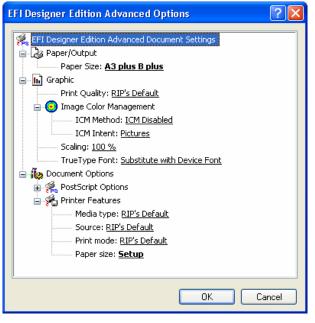
- Click OK.
- 7. Select your press profile in the **Proof Setup** dialog box, **View Menu > Proof Setup > Custom...**:
  - Profile: Select the press profile. If you don't have the press profile on the list, you should copy it in the next folder:
     Windows 98: WINDOWS>System>Color
     Windows NT: WinNT>System32>Color
     Windows 2000: C: > WINDOWS > System32 > Spool > Drivers > Color
     Windows XP: C: > WINDOWS > System32 > Spool > Drivers > Color
  - Intent: Perceptual (for RGB images) or Relative Colorimetric (for CMYK images).
  - Check Black Point Compensation.
  - **Simulate > Paper White:** This setting only affects the display, check it if you want to emulate the white of the paper.

Proof Setup	×
Setup: Custom	OK
Profile: Euroscale Coated v2	Cancel
Preserve <u>C</u> olor Numbers	Load
Intent: Perceptual	
✓ Use Black Point Compensation Simulate: □ Paper <u>W</u> hite □ Ink <u>B</u> lack	<u>S</u> ave

- Click **OK**.
- 8. Adobe Photoshop Print with Preview... settings, File menu > Print with Preview...:
  - Page Setup:
    - **Printer...**: Select the printer (ex. EFI Designer Edition).
    - o Click **OK**.
    - **Paper Size**: Select the paper size of the media loaded on the printer.
    - **Orientation:** Select the orientation of your image on the paper.
    - o Click **OK**.
  - Set the **Position** and the **Scaled Print Size** you need.
  - Check Show More Options.
  - Select the Color Management tab:
    - Source Space: Proof.
    - **Print Space > Profile**: Printer Color Management.
    - **Print Space > Intent**: Relative Colorimetric (select Absolute Colorimetric if you want to emulate the white of the paper).

Print						X
		— Positio	n —			Print
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		Left:	1,569	inches	~	
		✓ Center Image				Page Setup
	Scaled Print Size					(Page Setup)
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Show More (	Dptions					
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- Source Spa						
	Opocument: Adobe RGB (1998)					
Proof:	⊙ Proof Setup: Euroscale Coated v	2				
- Print Space	9)					
P <u>r</u> ofile:	Printer Color Management				~	
Intent:	Relative Colorimetric				~	
	Use Black Point Compensation					

- 9. Print, Print... > Properties > Advanced...:
  - Document Options > Printer Features:
    - o Paper Size: Setup
    - o Select **RIP's Default** on the others settings.



• Click **OK** until print.

## For more information on HP Designjet products

www.hp.com/go/designjet

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