

Technical Newsletter: Working with Non-HP Papers Updated version for Firmware 5.0.0.4 – Second version

June 1st 2007



When working with non-HP papers you may be wondering how do I use them correctly with the HP Designjet Z2100 and Z3100 Photo Printer series.

In this market place there are many different papers and many different brands to choose from, so it is very important to select the correct paper preset while both loading the paper and printing from the driver.

The table on the next page shows the recommended paper settings for some of the top papers in the market. To optimize their use, after loading the paper with the recommended settings, you will need to calibrate and then profile the paper.

For creating the ICC profile, you have different options: either you can profile the paper using the HP Color Center or you can use a profile developed externally (maybe by a colleague of yours or by the paper manufacturer). Details about how to profile your paper can be found in the Appendix: Different ways to work with non-HP papers section.

In case your paper does not appear in the next page, we also explain the different settings behind each paper preset or paper setting; this will help you to select the profile most suitable for your paper. You can find this table in Appendix: Selecting the paper preset that best matches your paper.

In this second version of the document, we have added more papers from Moab and Canson manufacturers. The table below describes in detail each of the columns of the table on next page:

Company	Name of the paper manufacturer
Name	Paper name (English)
Front Panel &	Paper settings recommended in the front panel, at the time of loading media, and when printing from the hp driver.
Driver selection	download the paper preset from the HP Knowledge Center. After the table you will find further details.

	NON-HP PAPERS & PAPER SETTINGS	RECOMMENDED (1/2)
Company	Name	Front Panel & Driver selection
Crane	Crane Museum Portofio Rag	Fine Art Material > Fine Art Paper >250 g/m2
	Crane Museum Silver Rag	Custom >Fine Art Pearl (more ink)
	Hahnemühle Fine Art Paper	Fine Art Material >Fine Art Paper
	Hahnemühle German Eaching 310 gsm	Fine Art Material >Fine Art Paper >250 g/m2
	Hahnemühle Photo Rag 308 gsm	Fine Art Material >Fine Art Paper
	Hahnemühle Photo Rag < 250 gsm	Fine Art Material >Fine Art Paper
	Hahnemühle Photo Rag > 250 gsm	Fine Art Material >Fine Art Paper >250 g/m2
	Hahnemühle Natural Art Duo	Fine Art Material >Fine Art Paper
	Hahnemühle Photo Glossy	Photo Paper > Photo Gloss Paper
	Hahnemühle Photo Rag Duo	Fine Art Material >Fine Art Paper >250 g/m2
		Fine Art Material >Fine Art Paper >250 g/m2
Hahnemühle	Hahnemuhle Fine Art Pearl	Custom >Fine Art Pearl (more ink)
	Hannemunie Photo Kag Satin	Photo Paper > HP Premium ID Satin
	Hahnemuhle Photo Kag Bright White	Fine Art Material >Fine Art Paper >250 g/m2
		Fine Art Material >Fine Art Paper
		Fine Art Material >Fine Art Paper
	Hannemunie VVnite Eaching	Fine Art Material >Fine Art Paper
	Hannemunie VVnite Eaching Satin	Photo Paper > HP Premium ID Satin
		Fine Art Material >Fine Art Paper >250 g/m2
	Hannemunie Canvas Artist	Fine Art Material >Fine Art Paper + Cutter OFF
	Hannemunie Fine Art Canvas	Fine Art Material >Fine Art Paper + Cutter OFF
		Custom > Photo SG/ Satin (less ink)
llford	Ilford Gallerie Smooth Pearl Paper 290 gsm	Custom > Photo SG/ Satin (less ink)
	litord Gallerie Smooth Gloss 290 gsm	Custom > Photo SG/ Safin (less ink)
Innova	Innova F-Type Glossy	Custom > Fine Art Pearl (more ink)
	Innova F-Type Semi-Malle	Custom > Photo SC /Setin (loss in)
Kodak	Kodak Preferienal Photo Panar Luster 255 am	Custom > Photo 30/ Salin (less ink
C	Kodak Professional Photo Paper Luster 255gsm	Final Address Final Address Paper
Somerset	Somerset vervet Enhanced	Fine Art Material >Fine Art Paper >250 g/m2
	Fujifilm FA Photo Kag 300 gsm	Fine Art Material >Fine Art Paper >250 g/m2
	Fullfilm Pedri Photo Paper 290 gsm	Custom > Photo 3G/ Satin (less ink)
	Fulifilm Paper Satin 270 gsm	Custom > Fine Art Deard (mens inl.)
	Fullinim Paper Semi-Gloss 240 gsm	Custom > Fine Art Pearl (more ink)
	Fullfilm Paper Fligh Gloss Photo Paper	Custom >Fine Arr Pedri (more Ink)
E:	Fullinim Photo Paper Glossy 240 gsm	Photo Paper > HP Premium ID Settin
гор	Fulling HD White Catton Canvas 400 cam	Fine Art Material & Canyon
	Fuilfilm Artist Capyon 240 asm	Fine Art Material > Canvas
	Fullitim Artist Canvas 340 gsm	Fine Art Material > Canvas
	Fuilifilm Art Etch Brigger 200 gem	Fine Art Material > Fine Art Paper > 250 g/m2
	Fullitim An Elch Paper Soo gsm	Fine Art Material > Fine Art Paper >250 g/ m2
	Fuilifilm Promium SomiCloss Paper 240 asm	Custom > Fine Art Poort (more inl.)
	Tatanal Photo Classes Prizer 272 and	Deste Parent & UD Pressiver UD Class
Tetenal	Telenal Photo Glossy raper 2/2 gsm	Photo Paper > HP Promium ID Gloss
	Tetenal Photo Semi Matte Paper 240 gsm	rnoro raper > Hr Fremium ID Satin
Moab	Moab Entrada Fine Art Bright 300gsm	Fine Art Material >Fine Art Paper >250 g/m2

	NON-HP PAPERS & PAPER SETTINGS RECOMMENDED (2/2)							
Company	Name	Front Panel & Driver selection						
	Arches Pure White Textured 240g	Fine Art Material >Fine Art Paper						
	Arches Natural Textured 310g	Fine Art Material >Fine Art Paper						
	Canson Mi Teintes Digital Ivory	Fine Art Material >Fine Art Paper						
Cancon	Canson Montval Torchon digital 280g	Fine Art Material >Fine Art Paper >250 g/m2						
Canson	Canson WaterColor Digital 210g	Fine Art Material >Fine Art Paper						
	Arches Natural Soft 240g	Fine Art Material >Fine Art Paper						
	ArchesPure White Soft 240g	Fine Art Material >Fine Art Paper						
	Canson Mi Teintes Digital Blanc	Fine Art Material >Fine Art Paper						

Please note that people using above media are also using and recommend the list of HP products listed at the HP Papers Portfolio section at the end of this document.

Downloading Paper Presets

In case you need to download a paper preset from the **HP Knowledge Center**, you can use the links here:

Z3100	http://www.hp.com/go/knowledge_center/djz3100
Z2100	http://www.hp.com/go/knowledge_center/djz2100

Click on the Media Profiles to access HP Paper Presets downloading page

🖄 HP Designjet Z3100 Prir	ter series - Support and knowledge Center -	Microsoft Internet Explorer provided by Hewlett
File Edit View Favorites	Tools Help	
G Back - 🕤 - 💌 😰 🕻	🏠 🔎 Search 👷 Favorites 🤣 🔯 🕅	- 🖵 📖 🦓
Address 🙆 http://h41186.www4	hp.com/country/us/en/support/Z3100.html?ci=marcom	&source=support&kw=Z3100&pageseq=962250
	» Sign-in with HP Passport » Register	United States-English
» HP Home » Produ	cts & Services >> Support & Drivers	» Solutions » How to Buy
Contact HD	Search	h: 🔊
» contact ne		• HP Designjet online only • All of HP United States
	HP Designjet home > Support and Drivers	
	HP Knowledge Center Support for HP Designjet Z3100 Photo Printer se	ries
» HP Designjet home		Product downloads
» Sign-in with HP Passport » Registration & my profile		» Drivers & software » System maintenance » Media profiles
» Printers		
» Supplies		Modia information
» Accessories		
» Promotions	* *	HP offers a wide range of media with this printer
» Downloads » Support and Drivers » Contact support » HP Large Format	How to Multimedia trainings	 » Supplies for HP Designjet Z3100 » Large format printing applications » Large format printing how-to workshops » Supplies support

APPENDIX

Selecting the Paper Preset that Best Matches Your Needs

In case your paper did not appear in the previous table, here you have some information to help you choose the right category for your paper:

Paper Type	 This is the name that is displayed in the driver & the front panel (the English version). The part highlighted in yellow is the unique attribute relative to the other papers in the same category <u>Table A</u>: Non-HP branded papers available through "Custom Paper" <u>Table B</u>: HP-branded papers available through "Add new paper." 							
Gloss Enhancer	Yes (Y) / No(N) : Whether or not the HP Gloss Enhancer can be used (applies to Glossy, Semi-Gloss/Satin, & Pearl finishes)							
Borderless	Yes (Y) / No (N) : Whether you can print without margins (this applies to roll media only).							
Carriage Height	High (H) / Low (L) : Carriage height has 2 positions. It is recommended that for paper with a weight over 250g, you select a paper type with a "High" setting, this is to avoid the print head's crashing into the paper.							
Printing Black	 Photo Black (P) / Matte Black (M) / HP Quad-black (Q): This setting indicates which inks are used when printing the color black: Photo black + grays Matte black + grays The full HP Quad-black system (matte black + photo black + 2 levels of gray). <u>Note</u>: Quad black applies only to the HP Designjet Z3100; the HP Designjet Z2100 uses up to 3 blacks 							
Ink Limit	Total amount of ink that the paper can absorb to maximize gamut without causing image quality problems. This setting is expressed in pico-liters (or nano-grams) per 1/600 th x 1/600 th inch paper area (divide by 4 for 1/1200 th by 1/1200 th inch area). In general we can say that the higher the ink limit, the higher the gamut.							
Print mode Best Quality or slider in the right position	Rendering resolution (RR) Resolution at which the image is rasterized/processed in the host (in pixels per printed inch, or pppi) Printing Resolution (PR) Resolution at which the image is printed (in dots per inch, or dpi) Typically, the higher the numbers of passes, the better the image quality, but at a lower speeds. Also, papers such as glossy media, need a longer drying time, that will generally require a higher number of passes. Whether printing when the carriage is traveling in a single direction only (Unidirectional) or in both directions (Bi-directional). Unidirectional modes typically give a better image quality – depending on the number of passes – but at lower speeds							
Automatic Cutter	Yes (Y) / No (N): Whether or not cutting will be performed. Even if Yes is selected, you can still disable actual cutting later through the driver. However, if "No" is selected here, you cannot re-enable it through the driver.							

	Table A Non-HP Paper Type	Gloss Enhancer	Borderless	Carriage Height	Printing Black	Ink Limiting	Pri RR	int Mode (B PR	est) Ol	Auto Cutter
	Photo Gloss Paper	Y	Y	L	Р	36				Y
L	Photo Gloss Paper (more ink)	Y	Y	L	Р	46				Y
Ipel	Photo Gloss Paper (less ink)	Y	Y	L	Р	32				Y
Pc	Photo Semi-gloss/Satin paper	Υ	Y	L	Р	36	600	1200×1200	16p Bidi	Y
loto	Photo Semi-gloss/Satin paper (more	Υ	Y	L	Р	46				Y
à	Photo Semi-gloss/Satin paper (less	Y	Y	L	Р	32				Y
	Photo Matte Paper	Ν	Ν	Н	М	30			8p Uni	Y
<u>פ</u> ר ד	Proofing Gloss Paper	Y	Y	Н	Р	36			16p	Y
ofir ipel	Proofing Semi-Gloss/Satin Paper	Υ	Y	Η	Р	36	600	1200x1200	Bidi	Y
Pro	Proofing Matte Paper	Ν	Ν	Н	Μ	30			8p Uni	Y
oer	Canvas	Ν	Ν	Н	Μ	42			16p Bidi	Ν
Par	Fine Art paper	Ζ	Ν	Η	М	42	600 1200x1200		8p	Y
Art	Fine Art paper >250 g/m²	Ν	Ν	Η	Q	60		Uni	Y	
ne	Fine Art Pearl Paper (more ink)	Y	Y	Η	Р	46			16p	Y
ij	Fine Art Pearl Paper (less ink)	Y	Y	Η	Р	32			Bidi	Y
σ	Super Heavyweight Coated ¹	Ν	Ν	Η	Q	50			8p	Y
oate	Heavyweight Coated	Ν	Ν	Н	м	30	600	1200x1200	Uni	Y
Ŭ	Coated (incl. Bond)	Ν	Ν	Н	Μ	22			6p Uni	Y
Plain	Plain (recycled)	Ν	Ν	Н	м	20	600	1200x1200	6p Bidi	Y

² Starting with firmware version 5.0.0.4, both matte and photo black inks are applied. Previous to this version, photo black was not used in this mode.

	Table B HP Paper Type	oss Enhancer	Borderless	ırriage Height	inting Black	Ink Limiting	Pri	nt Mode (Be	est)	Auto Cutter
		G		Ŭ	Pri		RR	PR	ΟΙ	
ē	HP Premium Instant-Dry Photo Gloss	Y	Y	L	Р	46				Y
Pap	HP Premium Instant-Dry Photo Satin	Y	Y	L	Ρ	46	600	1200x1200	16p Bidi	Y
hoto	HP Professional Satin Photo Paper	Y	Y	L	Р	46				Y
Δ	HP Photo Matte	Ν	Ν	Н	м	30			8p Uni	Y
<u>ور</u> _	HP Professional High-Gloss Contract Proofing paper	Y	Y	L	Ρ	46			16р	Y
Pape.	HP Professional Semi-Gloss Contract Proofing paper		Y	L	Р	46	600	1200x1200	Bidi	Y
L	HP Proofing Matte	Ν	Ν	Н	м	30			8p Uni	Y
	HP Collector Satin Canvas	Z	Ν	Η	м	30				Ν
er	HP Professional Matte Canvas	Z	И	Н	Μ	42			16p Bidi	Ν
t pap	HP Artists Matte Canvas		Z	Н	м	42	(00	1000 1000		Ν
e Ari	HP Hahnemühle Smooth Fine Art	И	И	Н	м	42	600	1200x1200		Y
Fin	HP Matte Litho-Realistic paper	Ν	Ν	Н	м	42			8p Uni	Y
	HP Hahnemühle Textured Fine Art	Ν	Ν	Η	м	42				Y

IMPORTANT NOTE: Please take special attention to the following recommendations

• Use borderless on roll media only for high gloss/semi gloss media.

• Do not use the cutter on canvas paper.

APPENDIX

Different ways to work with non-hp paper

There are many different papers, from many different brands available in the market. For this reason it is always best to understand what is behind the selections when following the procedure of creating a custom paper.

Apart from knowing which paper preset is recommended (see the table on page 2 called "Non-HP papers & papers settings recommendation"), you also have to calibrate and profile the paper in order to get the optimal color accuracy. You can calibrate and use a 3rd party ICC profile instead of creating one with the HP Embedded Spectrophotometer.

In order to help you through this process, find below a step by step description of the four possible scenarios:

Recommended paper preset is in the Firmware 5.X version	I would like to create an ICC profile with the HP Color Center I already have an ICC profile for my paper
Recommended paper preset can be found in the HP	I would like to create an ICC profile with the HP Color Center
Knowledge Center (highlighted in the table with light orange)	I already have an ICC profile for my paper

In the next pages you will find step by step instructions depending on the case and your operating system.

Note: If your printer system utility software version is:

- For Windows: HP Easy Printer Care < version 2.0
- For Mac: HP Print Utility < version 2.5

You have either to upgrade to the latest version or change the paper type in the front panel before doing paper calibration and/or profiling.

Recommended paper preset is in the Firmware 5.X version I would like to create an ICC profile with the HP Color Center

Steps for Macintosh users:

- 1. Select your Paper Type from Front Panel. See table "NON-HP PAPERS & PAPER SETTINGS RECOMMENDED" (Page 3)
- 2. Go Color Center and select "Create and Install" There you will find the following options



- 3. Select "Add
- 4. Create a name for your paper (which will be displayed in the driver and in the front panel) and select a paper category which is similar to the type of paper you have.

	Add Custom Paper	
 Select Paper Add Custom Paper Select Action Choose ICC Profile Settings Calibrate Your Printer (~10 min) Create ICC Profile (~20 min) Install ICC Profile Finished 	Paper Name: Special Instant-Dry Photo Closs Paper Type: Photo Gloss Paper ? Cancel Go Back Continue	Screenshot from MAC OS X version – HP Prir Utility

5. The next step is selecting the appropriate Paper Preset. Just select the same entry as shown in "Front Panel & Driver selection" the table on page 2. This is the most important step, since you are in fact determining a number of basic parameters for printer-paper interaction. Among others, these include: ink limiting, maximum density and color transition linearity thresholds, and the distance between the carriage and the paper (carriage height). You can adjust these for your particular print media by selecting the applicable paper type.

Screenshot from HP Print

New Paper."

- 6. The printer will then perform the color calibration (maximum density and linearity for each ink) and color profiling (creating an ICC profile) for your custom paper, which will ensure the best possible output quality.
- 7. Lastly, the HP Color Center will automatically install the profile in the computer that has launched the "Add new paper" process. If you are using your printer from another computer, remember to synchronize papers before moving forward. The process is now complete.

Steps for Windows users:

- 1. Select your Paper Type from Front Panel. "NON-HP PAPERS & PAPER SETTINGS RECOMMENDED" (Page 3)
- 2. Open Easy Printer Care, select "Create and Install ICC Profile" There you will find the following options



3. Then, select "Add New Paper."



4. The next step will be to create a name for your paper (which will appear both in the driver and in the front panel) and to select a paper category that is similar to the type of paper you have.

HP Color Center - Create a	nd Install ICC Prof F	ile	
HP Designjet Z3100 Create and Install ICO 1. Select Paper and Action 2. Add Custom Paper	44in Photo P C Profile - Step Please provide the n	ICL3 p 2 of 7 ame of the new paper as well as the kin	2 nd of paper it is and click next to continue.
 Choose ICC Profile Settings Calibrate Your Printer (~10 min) Create ICC Profile (~20 min) Install ICC Profile Finished 	Paper Informatio Paper Name: Paper Type	n My Photo Gloss Paper Select Custom Paper Bond and Coated Paper Photo Fäper Photo Fäper Fine Art Material	HP Premium Instant-dry Photo Gloss HP Premium Instant-dry Photo Satin Photo Gloss Paper Photo Semi-Gloss/Satin Paper Photo Matte Paper

5. The next step is **selecting the appropriate Paper Preset.** This **is the most important step**, since you are in fact determining a number of basic parameters for printer-paper interaction. Among others, these include: ink limiting, maximum density and color transition linearity thresholds, and the distance between the carriage and the paper (carriage height). You can adjust these for your particular print media by selecting the applicable paper type.

S HP Color Center - Create a	and Install ICC Profile		
HP Designjet Z3100 Create and Install IC) 44in Photo PCL C Profile - Step 3	3 of 7	?
1. Select Paper and Action 2. Add Custom Paper 3. Choose ICC Profile Settings 4. Calibrate Your Printer (~10	Please define the followin ICC Profile Settings ICC Profile Name:	g before generating the ICC profile. HP Designjet Z3100, My Photo Gloss Paper	
min) 5. Create ICC Profile (~20 min) 6. Install ICC Profile 7. Finished	Gloss Enhancer Before proceeding make s ICC profile.	vure that paper is properly loaded. Click Next to calibrate paper and create and install	
		Cancel Previous Next	

- 6. The printer will then perform the color calibration (maximum density and linearity for each ink) and color profiling (creating an ICC profile) for your custom paper, which will ensure the best possible output quality.
- 7. Lastly, the HP Color Center will automatically install the profile in the computer that has launched the "Add new paper" process. If you are using your printer from another computer, remember to synchronize papers before moving forward. The process is now complete.

Recommended paper preset is in the Firmware 5.X version I already have an ICC profile for my paper

Steps for Macintosh users:

- Select your Paper Type from Front Panel. "NON-HP PAPERS & PAPER SETTINGS RECOMMENDED" (Page 3)
- 2. Go Color Center and select "Install ICC Profile", select the Install button. There you will find the following options

Configuration Settings	
Information	Install ICC Profile
Printer Status	Install an ICC profile for the best color results printing from applications with your paper.
Job Accounting	
🐻 Printer Usage	
HP Color Center	
Calibrate Your Printer	
Calibrate Your Display	
Create and Install ICC Profile	Install
😥 Install ICC Profile	
🥂 Manage Papers 🛔	

3. Use the browser below to use your personal ICC profile, select the Choose button.



4. In the next window, select the "Add a new paper" option to create a new paper with your personal ICC profile.

00	Install ICC Profile
	Select Paper
 Select ICC Profile Select Paper Add Custom Paper Check ICC Profile Settings Calibrate Your Printer (~10 min) Install ICC Profile Finished 	Select a paper type that you want to associate with the ICC profile. Add a new paper Current papers
	(?) Cancel Go Back Continue

5. Create a name for your paper (which will be displayed both in the driver and in the front panel) and select a paper category that is similar to the type of paper you have.

			1		
		Add Custom F	Paper		
Θ	Select ICC Profile	Enter the name	and called the time of the new custom	anner Cliel	di anti anti anti anti anti anti anti ant
0	Select Paper	Continue to add	I the new custom paper to the list of cu	stom paper	ers.
•	Add Custom Paper		· · · · ·		Q
0	Check ICC Profile	Paper Name:	my favorite photo gloss paper		
	Settings	Paper Type	Bond and Coated Paper	•	
0	Calibrate Your Printer		Photo Paper	Þ	HP Premium Instant-dry Photo Glo
	(~10 min)		Proofing Paper	•	HP Premium Instant-dry Photo Sat
0	Install ICC Profile		Fine Art Material	•	✓ Photo Gloss Paper
0	Finished			_	Photo Semi-Gloss/Satin Paper
					Photo Matte Paper
	_				
		~		~ ~	
		(?)	(Cancel) (Go Back) (Coi	ontinue

6. Check your ICC profile settings.

	Check ICC Profile Settings
Select ICC Profile	
Select Paper	The ICC profile HP Designjet Z3100, hola, GE OFF.icc will be installed using the following settings:
Add Custom Paper	ICC Profile Name: HP Designiet 73100, hola, CE OFF
 Check ICC Profile Settings 	The Designific 23100, hold, GE OFF
 Calibrate Your Printer (~10 min) 	
Install ICC Profile	
• Finished	
	It is important to calibrate your printer for the new paper type before using it. Load the printer with my favorite photo gloss paper paper. Click Continue to print and scan the printer calibration chart.

- 7. The printer will then perform the color calibration (maximum density and linearity for each ink) and color profiling (creating an ICC profile) for your custom paper, which will ensure the best possible output quality.
- 8. Lastly, the HP Color Center will automatically install the profile in the computer that has launched the "Add new paper" process. If you are using your printer from another computer, remember to synchronize papers before moving forward. The process is now complete.

Steps for Windows users:

- Select your Paper Type from Front Panel. "NON-HP PAPERS & PAPER SETTINGS RECOMMENDED" (Page 3)
- 2. Open Easy Printer Care, select "Install ICC Profile". There you will find the following options.



3. Then Select "Add New Paper" and use the browser below to use your personal ICC profile.

HP Color Center - Install IC	C Profile	
6 Color Cente	er 📃 🚺	
IP Designjet Z3100	44in Photo PCL3	
Install ICC Profile - S	tep 1 of 6	2
1. Select ICC Profile 2. Add Custom Paper 3. Check ICC Profile Settings 4. Calibrate Your Printer (~10 min) 5. Install ICC Profile 6. Finished	Select a paper type that you want to associate with the ICC profile:	is Next

4. Create a name for your paper (which will be displayed both in the driver and in the front panel) and to select a paper category that is similar to the type of paper you have.

Color Center P Designjet Z3100 44in Photo PCL3 Install ICC Profile - Step 2 of 6 Select ICC Profile Add Custom Raper Click Next to continue. Perf Information Paper Name: My favorite photo gloss paper	Color Center ignjet Z3100 44in Photo PCL3 CC Profile - Step 2 of 6 C Profile tom Paper Cick Next to continue. Paper Information Paper Name: My favorite photo gloss paper Paper Type Photo Gloss Paper	HP Color Center - Install IC	CC Profile		
IP Designjet Z3100 44in Photo PCL3 Install ICC Profile - Step 2 of 6 1. Select ICC Profile 2. Add Custom Paper 3. Click Next To continue. Paper Information Paper Name: My favorite photo gloss paper	ignjet Z3100 44in Photo PCL3 CC Profile - Step 2 of 6 CC Profile - Step 2 of 6 CC Profile - Step 2 of 6 CC Profile Settings Paper Information Paper Name: My favorite photo gloss paper Paper Type Photo Gloss Paper	Color Cente	er		1000
I. Select ICC Profile - Step 2 of 6 1. Select ICC Profile 2. Add Custom Paper 2. Add Custom Paper 3. Check ICC Profile Person Profile Paper Information Paper Name: Information	CC Profile Step 2 of 6 CC Profile Please provide the name of the new paper. Click Next to continue. Mom Paper Paper Information PyOur Printer (~10) Paper Name: Paper Type Photo Gloss Paper	P Designjet Z3100	44in Photo P	CL3	
Please provide the name of the new paper. Click Next to continue. 2. Add Custom Paper 3. Check ICC Profile Settings 4. Calibrate Your Printer (~10 Paper Name: My favorite photo gloss paper	CC Profile Pease provide the name of the new paper. Click Next to continue. stom Paper Paper Information CC Profile Settings Paper Information Paper Name: My favorite photo gloss paper Paper Vare Poto Gloss Paper	nstall ICC Profile - S	tep 2 of 6		1
2. Add Custom Paper 3. Check ICC Profile Settings 4. Calibrate Your Printer (~10 Paper Name: My favorite photo gloss paper	Stom Paper DC Profile Settings Paper Information Paper Name: My favorite photo gloss paper Paper Type Photo Gloss Paper	1. Select ICC Profile	Please provide the na	me of the new paper. Click Next to continue.	
Check ICC Profile Settings A Calibrate Your Printer (~10 Paper Name: My favorite photo gloss paper	C Profile Settings Paper Name: My favorite photo gloss paper Paper Name: Paper Name: Vour Control Gloss Paper Paper Vape Photo Gloss Paper	2. Add Custom Paper	Paper Information		
. Califiate Four Pinter («To	Paper Type Photo Gloss Paper V	3. Check ICC Profile Settings	Paper Name:	My favorite oboto gloss paper	
nin) Danag Tuna	Photo Gloss Paper	nin)	Paper Tune	Direte Olices Deser	
5. Install ICC Profile	C Profile	5. Install ICC Profile	Paper Type	Photo Gloss Paper	
		6. Finished			
		inished			
nished		12000			
Finished					
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Finished					
). Finished					
5. Finahed					
5. Finahed					
5. Finahed				Cancel Previou	s Next
S. Finished	Cancel Provinus liext				
5. Finished Cancel Previous Next	Cancel Previous Next				
5. Finahed Cancel Previous Next	Cancel Previous Next				
Cancel Previous Next	Cancel Previous Hext				

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- 9. The printer will then perform the color calibration (maximum density and linearity for each ink) and color profiling (creating an ICC profile) for your custom paper, which will ensure the best possible output quality.
- 10. Lastly, the HP Color Center will automatically install the profile in the computer that has launched the "Add new paper" process. If you are using your printer from another computer, remember to synchronize papers before moving forward. The process is now complete.

Recommended paper preset is in the HP Knowledge Center I would like to create an ICC profile with the HP Color Center

Steps for Macintosh users:

- 1. Download the Paper Preset from HP Knowledge Center website (see URL in page 3).
- 2. Save the Paper Preset file to your computer.
- 3. Go to the Color Center and select "Download Firmware". Then select the Start button.



4. Use the browser to search and install your downloaded paper preset. Select the Update button. Your front panel will display the updating process. When your printer is updated, your printer will restart automatically.



- 5. Synchronize your computer with your printer.
- 6. Go to "Create and Install ICC Profiles".
- 7. Select "Current Paper" and choose the paper that you need, and select the paper category. This step is **selecting the appropriate Paper Preset.** This **is the most important step**, since you are in fact determining a number of basic parameters for printer-paper interaction. Among others, these include: ink limiting, maximum density and color transition linearity thresholds, and the distance between the carriage and the paper (carriage height). You can adjust these for your particular print media by selecting the applicable paper type.



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- 1. Download the Paper Preset from HP Knowledge Center website (see URL in page 3).
- 2. Save the Paper Preset file to your computer.
- 3. Open Easy Printer Care, go, and select "Support". There you will find the following options.



4. Then Select "Firmware Update" option.

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My HP Printers	HP Designiet 73100 44in Photo PCL	Status Updated: Saturday, May 12, 2007 2:53:23 PM
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5. Select "Media profile update". Use the browser to select the paper preset file from your computer, and select it to update. The front panel will display the updating process. When your printer is updated, your printer restarts automatically.

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Main	Setup Support
Configuration Printer settings E-mail every Maintenance Firmware update HP-GL2 upgrade Media profile update [Media profile up	Media profile update Prese use this tool to update or add a media profile as follows: 1. Locate the appropriate file from the Web and download it to your hard disk drive. Latest media profile files located at HP Designed Online 2. Use the BROWSE button to select the trecently downloaded file.

6. Synchronize your printer with the Easy Printer Care refresh button. Now your new paper presets appear in Front Panel, inside the **Custom** category.

7. Open Easy Printer Care, and select "Create and Install". There you will find the following options.



8. Select "Current Papers", inside custom category select the paper preset that you downloaded previously.

🌖 HP Color Center - Create a	ind Install ICC Profile
6 Color Cente	er internet interne
HP Designjet Z3100) 44in Photo PCL3
Create and Install IC	C Profile - Step 1 of 5
1. Select Paper and Action 2. Choose IICC Profile Settings 3. Create IICC Profile (~20 min) 4. Install IICC Profile 5. Finished	Select a paper type that you want to associate with the ICC profile: Add a new paper Current papers my photo gloss paper Current papers Current papers Select Action: Print target and create ICC profile Print target and create ICC profile later. Carcel CC profile from a target that has already been printed. Carcel 2009

9. The next step is **selecting the appropriate Paper Preset.** Just select the same entry as shown in "Front Panel & Driver selection" the table on page 2. This **is the most important step**, since you are in fact determining a number of basic parameters for printer-paper interaction. Among others, these include: ink limiting, maximum density and color transition linearity thresholds, and the distance between the carriage and the paper (carriage height). You can adjust these for your particular print media by selecting the applicable paper type.

10. The printer will then perform the color calibration (maximum density and linearity for each ink) and color profiling (creating an ICC profile) for your custom paper, which will ensure the best possible output quality.

11. Lastly, the HP Color Center will automatically install the profile in the computer that has launched the "Add new paper" process. If you are using your printer from another computer, remember to synchronize papers before moving forward. The process is now complete.

Recommended paper preset is in the HP Knowledge Center I already have an ICC profile for my paper

Steps for Macintosh users:

- 1. Follow the steps 1 to 6 from the previous chapter. (page 19)
- 2. Select your Paper Type from Front Panel.
- 3. Go to the Color Center and select "Install ICC Profile", select the Install button. There you will find the following options



4. Select "Current Paper" and choose the paper that you need, and select the paper category. This step is selecting the appropriate Paper Preset. This is the most important step, since you are in fact determining a number of basic parameters for printer-paper interaction. Among others, these include: ink limiting, maximum density and color transition linearity thresholds, and the distance between the carriage and the paper (carriage height). You can adjust these for your particular print media by selecting the applicable paper type.

	Select Paper
 Select ICC Profile Select Paper Add Custom Paper Check ICC Profile 	Select a paper type that you want to associate with the ICC profile.
Settings	
 Calibrate Your Printer (~10 min) 	Custom Paper FACTORY
Install ICC Profile	▶⊡xx
• Finished	 Fine Art Media Pearl □ Iaura □ Ana □ My Photo Gloss Paper
	My favorite photo gloss paper
	Fuji Pearl Photo Paper

- 5. The next step is selecting the appropriate Paper Preset. Just select the same entry as shown in "Front Panel & Driver selection" the table on page 2. This is the most important step, since you are in fact determining a number of basic parameters for printer-paper interaction. Among others, these include: ink limiting, maximum density and color transition linearity thresholds, and the distance between the carriage and the paper (carriage height). You can adjust these for your particular print media by selecting the applicable paper type.
- 6. The printer will then perform the color calibration (maximum density and linearity for each ink) and color profiling (creating an ICC profile) for your custom paper, which will ensure the best possible output quality.
- 7. Lastly, the HP Color Center will automatically install the profile in the computer that has launched the "Add new paper" process. If you are using your printer from another computer, remember to synchronize papers before moving forward. The process is now complete.

Steps for Windows users:

- 1. Follow the steps 1 to 6 f from previous chapter
- 2. Select your Paper Type from Front Panel.
- 3. Open Easy Printer Care, and select "Install ICC Profile". There you will find the following options.



4. Select "Current Paper" and use the browser shown below to use your personal ICC profile.



- 5. The next step is **selecting the appropriate Paper Preset.** Just select the same entry as shown in "Front Panel & Driver selection" the table on page 2. This **is the most important step**, since you are in fact determining a number of basic parameters for printer-paper interaction. Among others, these include: ink limiting, maximum density and color transition linearity thresholds, and the distance between the carriage and the paper (carriage height). You can adjust these for your particular print media by selecting the applicable paper type.
- 6. The printer will then perform the color calibration (maximum density and linearity for each ink) and color profiling (creating an ICC profile) for your custom paper, which will ensure the best possible output quality.
- 7. Lastly, the HP Color Center will automatically install the profile in the computer that has launched the "Add new paper" process. If you are using your printer from another computer, remember to synchronize papers before moving forward. The process is now complete.

Important Recommendations

How can I work adding a new paper which is based on a Non-HP Paper Type under Custom Category.

Please note that when using "HP Easy Printer Care" on the Windows platform, due to driver architecture, it is possible to incorrectly select in step #3 the option "Add New Paper" and select a paper listed under the "Custom" category.

This option is NOT recommended, since once the ICC profile has been made, the results will not be as good as expected, colors will not be accurate.

Notice however that this problem will not appear if you select a paper that is not in the "Custom" category, it is part of one of the following paper categories:

- "Fine Art Material "
- "Bond and Coated Paper "
- " Photo Paper "
- " Proofing Paper"

How can I work with different type of papers based in the same "Custom Paper Type"?

In same cases, I can have a custom paper type that I would like to use with different types of papers of my preferred vendors (e.g: when I download a media profile that is under "Custom Paper Type" and I want to check the behavior with different type of papers). I can't add a new paper using the "Custom Paper Type", as noted above to avoid ICC profile issues, I would need to do something different.

In this case, it is recommended loading all my papers with the same custom paper type that was added previously and is available from the front panel, under the custom paper types. Even though I've loaded all the papers under the same option in the printer; I can still generate a different ICC profile for every one and then save it with a different name (a name easy to remember with the vendor's paper name for example). Every time I want to use one of these papers, I need to load it and select it from the front panel name, launch a Color Calibration (it will be different for every type of paper and it is important to do so every time we change the paper) and when printing select, the right ICC profile. It can be done in Photoshop by selecting the following options:

- Application Managed Colors.
- Printer Profile: put the name of the icc profile associated with the paper
- And in the driver:

- Application Color Managed
- Select the custom media that is in the front panel.

Where to download the latest firmware and driver available?

Go to HP Knowledge Center at:

- For HP Designjet Z3100: <u>http://www.hp.com/go/knowledge_center/djz3100</u>
- For HP Designjet Z2100: <u>http://www.hp.com/go/knowledge_center/djz2100</u>

On the right-upper of the page (orange box), click on:

- System Maintenance, go to the firmware download section.
- Drivers, go to driver section.



HP Papers Portfolio.

	HP PAPER	S USED & RECOMMENDED	
Company	Name	HP Product	HP Part number & Formats
Crane	Crane Museum Portofio Rag	HP Hahnemühle Smooth Fine Art Paper 265 g/m²	24" - Q8732A 36" - Q8745A 42" - Q8733A
	Crane Museum Silver Rag	HP Professional Satin Photo Paper 300 g/m²	24" - Q8759A 44" - Q8840A
	Hahnemühle German Etching 310 gsm	HP Hahnemühle Textured Fine Art Paper 265 g/m ² or HP Hahnemühle Textured Fine Art Paper	24" - Q8736A 36" - Q8737A 42" - Q8738A
		310 g/m ²	24" - Q8739A 42" - Q8740A
	Hahnemühle Photo Rag 308 gsm	HP Hahnemühle Smooth Fine Art Paper 310 g/m²	24" - Q8734A 42" - Q8735A
	Hahnemühle Photo Rag < 250 gsm	HP Hahnemühle Smooth Fine Art Paper 265 g/m²	24" - Q8732A 36" - Q8745A 42" - Q8733A
	Hahnemühle Photo Rag > 250 gsm	HP Hahnemühle Smooth Fine Art Paper 310 g/m²	24" - Q8734A 42" - Q8735A
	Hahnemühle Natural Art Duo	Some customers liked and tested a new material!: HP Matte Litho-realistic Paper 270 g/m ²	24" - Q7972A 36" - Q7973A
Hahnemühle	Hahnemühle Photo Glossy	HP Premium Instant-dry Gloss Photo Paper 260 g/m²	18" - Q7990A 24" - Q7991A 36" - Q7993A 42" - Q7995A 60" - Q7999A
	Hahnemühle Photo Rag Duo	Some customers liked and tested a new material!: HP Matte Litho-realistic Paper 270 g/m ²	24" - Q7972A 36" - Q7973A
	Hahnemühle Torchon	Some customers liked and tested a new material!: HP Matte Litho-realistic Paper 270 g/m ²	24" - Q7972A 36" - Q7973A
	Hahnemühle Fine Art Pearl	Some customers liked and tested a new material!: HP Matte Litho-realistic Paper 270 g/m ²	24" - Q7972A 36" - Q7973A
	Hahnemühle Photo Rag Satin	Some customers liked and tested a new material!: HP Matte Litho-realistic Paper 270 g/m ²	24" - Q7972A 36" - Q7973A
	Hahnemühle Photo Rag Bright White	HP Hahnemühle Smooth Fine Art Paper 310 g/m²	24" - Q8734A 42" - Q8735A

	Hahnemühle William Turner	HP Hahnemühle Textured Fine Art Paper 265 g/m² orHP Hahnemühle Textured Fine Art Paper 310 g/m²	24" - Q8736A36" - Q8737A42" - Q8738A 24" - Q8739A42" - Q8740A
	Hahnemühle Albert Duerer	HP Hahnemühle Watercolour Paper 210 g/m²	36" - Q1984A
	Hahnemühle White Etching	HP Hahnemühle Textured Fine Art Paper 265 g/m ² or HP Hahnemühle Textured Fine Art Paper 310 g/m ²	24" - Q8736A 36" - Q8737A 42" - Q8738A <u>24" - Q8739A</u> 42" - Q8740A
	Hahnemühle White Etching Satin	Some customers liked and tested a new material!: HP Matte Litho-realistic Paper 270 g/m²	24" - Q7972A 36" - Q7973A
	Hahnemühle Museum Eaching	HP Hahnemühle Textured Fine Art Paper 265 g/m² or HP Hahnemühle Textured Fine Art Paper	24" - Q8736A 36" - Q8737A 42" - Q8738A
		310 g/m ²	24" - Q8739A 42" - Q8740A
	Hahnemühle Canvas Artist	HP Artist Matte Canvas 380 g/m²	24" - Q8704A 36" - Q8705A 42" - Q8706A 60" - Q8707A
	Hahnemühle Fine Art Canvas	HP Professional Matte Canvas 430 g/m²	24" - Q8673A 36" - Q8671A 42" - Q8674A 60" - Q8672A
	Hahnemühle Canvas Satin	HP Collector Satin Canvas 400 g/m³	24" - Q8708A 36" - Q8709A 42" - Q8710A 60" - Q8711A
	Ilford Gallerie Smooth Pearl Paper 290 gsm	HP Professional Satin Photo Paper 300 g/m²	24" - Q8759A 44" - Q8840A
llford	Ilford Gallerie Smooth Gloss 290 gsm	HP Premium Instant-dry Gloss Photo Paper 260 g/m²	18" - Q7990A 24" - Q7991A 36" - Q7993A 42" - Q7995A 60" - Q7999A
Innova	Innova F-Type Glossy	HP Premium Instant-dry Gloss Photo Paper 260 g/m²	18" - Q7990A 24" - Q7991A 36" - Q7993A 42" - Q7995A 60" - Q7999A

	Innova F-Type Semi-Matte	HP Premium Instant-dry Satin Photo Paper 260 g/m²	18" - Q8001A24" - Q7992A36" - Q7994A42" - Q7996A60" - Q8000A
Kodak	Kodak Premium Rapid Dry Photo Luster 260gsm	HP Premium Instant-dry Satin Photo Paper 260 g/m²	18" - Q8001A 24" - Q7992A 36" - Q7994A 42" - Q7996A 60" - Q8000A
	Kodak Professional Photo Paper Luster 255gsm	HP Professional Satin Photo Paper 300 g/m²	24" - Q8759A 44" - Q8840A
Somerset	Somerset Velvet Enhanced	HP Hahnemühle Textured Fine Art Paper 265 g/m² or HP Hahnemühle Textured Fine Art Paper 310 g/m²	24" - Q8736A 36" - Q8737A 42" - Q8738A
Fuji	Fujifilm FA Photo Rag 300 gsm	HP Hahnemühle Smooth Fine Art Paper 310 g/m²	24" - Q8734A 42" - Q8735A
	Fujifilm Pearl Photo Paper 290 gsm	HP Professional Satin Photo Paper 300 g/m²	24" - Q8759A 44" - Q8840A
	Fujifilm Paper Satin 270 gsm	HP Premium Instant-dry Satin Photo Paper 260 g/m²	18" - Q8001A 24" - Q7992A 36" - Q7994A 42" - Q7996A 60" - Q8000A
	Fujifilm Paper Semi-Gloss 240 gsm	HP Premium Instant-dry Satin Photo Paper 260 g/m²	18" - Q8001A 24" - Q7992A 36" - Q7994A 42" - Q7996A 60" - Q8000A
	Fujifilm Paper High Gloss Photo Paper	HP Premium Instant-dry Gloss Photo Paper 260 g/m²	18" - Q7990A 24" - Q7991A 36" - Q7993A 42" - Q7995A 60" - Q7999A
	Fujifilm Photo Paper Glossy 240 gsm	HP Premium Instant-dry Satin Photo Paper 260 g/m²	18" - Q8001A 24" - Q7992A 36" - Q7994A 42" - Q7996A 60" - Q8000A
	Fujifilm Photo Paper Satin 270 gsm	HP Premium Instant-dry Satin Photo Paper 260 g/m²	18" - Q8001A 24" - Q7992A 36" - Q7994A 42" - Q7996A 60" - Q8000A

	Fujifilm HD White Cotton Canvas 400 gsm	HP Professional Matte Canvas 430 g/m²	24" - Q8673A36" - Q8671A42" - Q8674A60" - Q8672A
	Fujifilm Artist Canvas 340 gsm	HP Artist Matte Canvas 380 g/m²	24" - Q8704A 36" - Q8705A 42" - Q8706A 60" - Q8707A
	Fujifilm Art Photo rag Paper 300 gsm	HP Hahnemühle Smooth Fine Art Paper 310 g/m²	24" - Q8734A 42" - Q8735A
	Fujifilm Art Etch Paper 300 gsm	HP Hahnemühle Textured Fine Art Paper 265 g/m ² or HP Hahnemühle Textured Fine Art Paper 310 g/m ²	24" - Q8736A 36" - Q8737A 42" - Q8738A
	Fujifilm Fine Art Museum Smooth Rag Paper 300	HP Hahnemühle Smooth Fine Art Paper 310 g/m ² or: HP Matte Litho-realistic Paper 270 g/m ²	24" - Q8734A 42" - Q8735A 24" - Q7972A 36" - 7973A
	Fujifilm Premium SemiGloss Paper 240 gsm	HP Premium Instant-dry Satin Photo Paper 260 g/m²	18" - Q8001A 24" - Q7992A 36" - Q7994A 42" - Q7996A 60" - Q8000A
Tetenal	Tetenal Photo Glossy Paper 272 gsm	HP Premium Instant-dry Gloss Photo Paper 260 g/m²	18" - Q7990A 24" - Q7991A 36" - Q7993A 42" - Q7995A 60" - Q7999A
	Tetenal Photo Semi Matte Paper 240 gsm	HP Premium Instant-dry Satin Photo Paper 260 g/m²	18" - Q8001A 24" - Q7992A 36" - Q7994A 42" - Q7996A 60" - Q8000A

Last information about HP papers is always posted at:

http://h41186.www4.hp.com/country/us/en/supplies/search/288.html?pageseq=962251



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