EPSON SC-P7570 (MK) PRINT INSTRUCTIONS

M C A D service bureau

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Display Color

The computer moniters in the SB and DPL are color calibrated once a semester to give you the most accurate on screen representation of how your image will print out. You must set the Display in order to view your image with this color setting.

1. Go to System Preferences

2. Select Displays

3. Adjust the **Brightness** slider to the level taped to the computer (*it* should a bit to the right of center), and uncheck "Automatically adjust brightness"

4. Select the **Color** tab, and choose the most recent "_MCAD_Xdate..." **Display Profile** (the most recent calibration should appear at the top of the list)

5. Close the System Preferences window, done!



Color Settings

For the most accurate color when printing, we reccomend adjusting the Color Setting in Photoshop (or other Adobe program) to convert to the working spaces. See our <u>KnowledgeBase article on Color Spaces</u> for more information about why we recommend working in Adobe RGB (1998) for all print projects at MCAD.

- 1. In Photoshop Edit > Color Settings
- 2. Settings: "North American Prepress 2"
- 3. Color Management Policies: "Convert to Working..." for each color space

		Color Se	ettings			
Settings: North Amer	rica Prepress 2 🔹					ОК
Working Spaces			Conve	rsion Options		
RGB: A	Adobe RGB (1998)		Engine:	Adobe (ACE) ~		Cancel
СМҮК: Ц	J.S. Web Coated (SWOP) v2		Intent:	Relative Colorimetric 🗸		Load
Gray: D	Dot Gain 20%			Use Black Point Compensat	ion	Save
Spot: [Dot Gain 20%			☑ Use Dither (8-bit/channel in	nages)	
Color Management Po	olicies			Compensate for Scene-refe	rred Profiles	Preview
	Convert to Working RGB		Advand	ced Controls		
СМҮК: С	Convert to Working CMYK 🗸		🗌 Desa	urate Monitor Colors By:	20 %	
Gray: C	Convert to Working Gray 🗸 🗸		Blend	RGB Colors Using Gamma:	1.00	
Profile Mismatches: 🔽	🛾 Ask When Opening 🛛 🔽 Ask V	Vhen Pasting	Blenc	Text Colors Using Gamma:	1.45	
Missing Profiles: 🔽	Ask When Opening		For	more information on color settir	ngs, search for	
			Ψ			
Description						

When you open your files in Photoshop, this message may appear, make sure you are converting to the working space, and hit OK

	Embedded Profile Mismatch
4	The document "batcave-epson.tif" has an embedded color profile that does not match the current RGB working space.
	Embedded: EPSON Standard RGB - Gamma 1.8 Working: Adobe RGB (1998)
	What would you like to do?
	\bigcirc 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)
	Cancel OK

Accessing Your Files

You must download your files into the Temp Storage hard drive folder on this computer before opening them.

Opening your file from an external hard drive, web browser, or your MCAD server will not work for printing.

External drives/servers are not powerful enough to process the print, and you risk causing communcation errors and glitchy or partial prints.

We reccommend using your <u>MCAD studio server</u> space to transfer files from your laptop to the desktop computer quickly and easily!

From Finder:

Command+K (or Go>Connect to Server) Select (or type in) studio.mcad.edu Log in with your MCAD user account information

Other methods of transferring files onto this computer include:

- **Google Drive** (make sure you have your phone and/or laptop handy, as this method often requires two-step verification when logging into an unknown device)

- External Hard Drive or Thumb Drive
- Dropbox or other web based servers

In all instances, make sure you are downloading your files into the Temp_Storage hard drive, and opening them from that location.



to reiterate:

ONLY PRINT FROM TEMP_STORAGE!

Nozzle Check

Printing a Nozzle Check pattern prior to printing is standard practice for professional printing. We recommend printing a nozzle check at the beginning of a print session, or if you notice your print quality has declined. Please contact SB staff if you need assistance.

1. From the little LCD touch screen on the printer Select Menu > Maintenance > Print Head Nozzle Check.

2. Select Start. The nozzle pattern will print.





Print head is clean

Print head needs cleaning



4. Do one of the following:

- If there are no gaps, select **O** to exit.
- If there are gaps or the pattern is faint, select **X** to perform head cleaning.

5. Follow the instructions on the screen to clean the print head, check the nozzles, and repeat the process as necessary.

Printing Instructions

Follow these instructions, in the correct order, and you should get a pretty perfect print! Please make an appointment with SB staff if you would like a one-on-one tutorial with this advanced equipment.

Pop into the SB, during business hours, if you would like staff to double check your print settings before hitting print.

If you run into any issues, please reach out to staff ASAP for assistance.

1. Turn the printer on

- Log in to the computer station with your MCAD short username/password
- Download your files to Temp Storage hard drive
- Run a Nozzle Check (and Head Cleaning if neccessary)

2. Open your image in Photoshop

- Log in to Photoshop
 - MCAD email (ex. jdoe@mcad.edu) press Return key
 - MCAD short username and password (ex. jdoe)
- Open files from Temp Storage
- Reccommended file prep before printing
 Image > Mode: RGB Color, 8 Bit/Channel
 File Format: TIFF
 Layers: Flattened

3. View > Proof Setup > select paper type:

Epson Enhanced Matte



You may notice slight color shifts in your image after setting Proof Setup, and with the calibrated computer display, any final color adjustments or fine tuning to your image should be done now (using Levels, Curves, etc).

4. File > Print



Select these settings in the print window that pops up:

- a. Printer: Epson SC-P7500 Series
- **b. Layout:** Choose what is best for your image (ignore the preview image until you

have selected your paper size in the next steps)

- c. Color Handling: Photoshop Manages Colors
- d. Printer Profile: Epson SC-P9500_7500 Enhanced Matte Paper

Note: This print station uses Matte Black ink and Epson Enhanced Matte Paper only. If you need a Luster finish paper, or other material, please use a different printer.

5. Print Settings...

Select the Print Settings button to open an additional print window



6. Paper Size:

Select a pre-set paper size from the dropdown menu, or create a custom paper size



Please note, the paper size you select is the area PaperCut uses to calculate print cost, so it is often most cost effective to create a custom paper size!

For pre-set sizes, please select the top option in the list, or a "Roll Paper" option

		Super AZ 17.00 by 24.01 mones	,	COLUMN STREET
Printer	🐨 EPSON SC-P	Super A3 / B 12.95 by 19.01 inches	>	
		SuperW A3 12.95 by 22.01 inches	>	
Presets		US B 11 x 17 in 11.00 by 17.00 inches	>	
		US C 17 x 22 in 17.00 by 22.00 inches	>	
Copies		US D 22 x 34 in 22.00 by 34.00 inches	>	US D 22 x 34 in
		US Legal 8.50 by 14.00 inches	>	US D 22 x 34 in (Roll Paper - Banner)
Paper Size		✓ US Letter 8.50 by 11.00 inches	>	US D 22 x 34 in (Sheet)
		Manage Custom Sizes		US D 22 x 34 in (Sheet - Centering)
> Layout				Print

7. Printer Settings:

Scroll down to access the additional options -

- 1. Click on **Printer Options** to expand the menu
- 2. Select Printer Settings

		Print
	Printer	EPSON SC-P7500 Series (231-iMac2720-03-Lab)
	Presets	Default Settings 🗘
	Copies	1 0
	Paper Size	US Letter 8.50 by 11.00 inches
1. expand	 Layout page per sheet Paper Handling Collate Sheets, All Sheets 	
	Printer Options	
	Color Matching	i
2. click to	Printer Settings	í
access next menu	Roll Paper Settings	i
	Advanced Media Control	i
*psst.	HDD Settings	i
Roll Paper Settings will be the next move	> Printer Info	
	? PDF -	Cancel Save

•••	Print	
Ва	sic Advanced Color Settings	
Page Setup:	Roll Paper	a.
Media Type:	Enhanced Matte Paper	k
Color:	Color	
Color Mode:	Off (No Color Manage 💲	
Print Quality:	Quality Options	с.
	Quality	
	Print Quality: SuperFine - 1200dpi MicroWeave: On	d.
	Black Enhance Overcoat	
	🗌 Minimize Top Margin	
Paper Edge Quality:	Standard 📀	
	✓ High Speed	е.
	🗌 Finest Detail	0.
	Proofing	
	Print Preview	
?	Cancel OK	f.

Under the Basic tab

a. Page Setup: Roll Paper (pre-set paper sizes will auto select, you will need to manually select "Roll Paper" for custom paper sizes)

b. Media Type: Choose the paper type: *Enhanced Matte Paper*

- c. Print Quality: Quality Options (will reveal speed/quality slider)
- **d. SuperFine 1200dpi will work great for most projects** (choosing a lower dpi will print faster with lower quality, higher dpi will print slower with higher quality)

e. Optional settings

- Paper Edge Quality: Standard
- High Speed: Check for double time printing (recommended)
- Finest Detail: Sharpens edges. Use for text, linework, or vector based images
- f. Click OK to continue to Roll Paper Settings

Final settings check:

Look at your previewed image, make sure nothing is being cut off

Rotate the **Layout** if neccessary

Optional: scroll down to add crop/trim marks (the paper size you selected or created needs to be larger than image size for crop/trim marks to print)

If you would like SB staff to double check your settings, now is the time!



If you are confident that you followed the settings accurately go ahead and...

8. Hit Print!

Please remember to log out of the computer, and turn the printer off when done!

Troubleshooting:

- Nothing printing? Check your <u>PaperCut account</u> you may need to add money
- Print looking wrong? Cancel/Pause the print ASAP!
 - Did you do <u>a nozzle check</u>? If the nozzles are clogged prints will look bad Did you follow the instructions accurately? Go back through and double check Check out the troubleshooting section on <u>Page 17</u>
 - Save your bad print to show SB staff so we can advise you appropriately <u>Request a refund</u> for printer errors through your PaperCut account

Custom Paper Size

We reccommend creating a custom paper size when printing on any of our Epson Printers. It is the most cost effective, and gives you the most control over your work.



b. Enter Width / Height

We recommend making your
"Paper Size" 1-2in larger
than your image size, to
accommodate a nice margin, or
allow for crop/trim marks
Width should be 24in or less
Height (length off of the roll)
should be between 5-96 in

c. Enter Non-Printable Area

These are your margins, this area cuts into the defined paper size, it does not add area outside of the Paper Size
Set all to 0 to print Borderless (fully edge to edge on paper)



Hit OK when done <u>Continue with Step 7</u> in your print settings

Borderless Printing

Creating a borderless print is only possible if your image is 24" in either width or height.

Please note: Allow for at least .125" bleed - printing borderless will enlarge your image slightly to bleed over the edges, you will lose those edges of your image to trimming.

Use these additional/alternate settings, while following the Print Instructions listed on <u>Pages 6-11</u> for all other settings.

Paper Size: Create Custom Paper Size

Width/Height: exact size of your image Non-Printable Area: 0 in for all sides

Printer Settings:

Page Setup: Roll Paper - Borderless, Auto Expand

Roll Paper Settings:

Auto Cut Settings: Double Cut Borderless Enlargement Setting: Max

Paper Size:	Untitled 24.00 by 32.12 inches	Paper Si	ze: Untitled 24.00 by 32.12 inches	
	Roll Paper Settings		Printer Settings 😌 Basic Advanced Color Settings	
Auto Cut Settings: Auto Rotate Print Page Line Save Roll Paper Borderless Enlargement Setti Min Moving the slider to Min will However, margins may appee	ing Standard Max reduce the amount of image enlargement.	Color M Print Qua	ype Roll Paper - Banner Polor Roll Paper - Borderless, Auto Expand Roll Paper - Borderless, Retain Size Roll Paper - Borderless, Retain Size Roll Paper - Borderless Banner Sheet Sheet - Centering Sheet - Borderless, Auto Expand Sheet - Borderless, Retain Size Poster Board Poster Board - Centering	
? PDF 💟 Hide Details		Cancel Save	 High Speed Finest Detail 	

Advanced B&W Printing

Advanced Black and White (ABW) mode on Epson printers is one of the best and easiest ways to print high quality, neutral toned, B&W prints.

1. Follow pages 1-6 of this manual

2. File > Print

Printer: EPSON SC-P7500 Series Color Handling: Printer Manages Colors

3. Print Settings...

Follow <u>steps 5-6</u> See <u>page 12</u> for custom paper sizes

4. Color Matching

Select EPSON Color Controls

5. Printer Settings

Basic tab

Media Type: Choose your paper type Color: Advanced B&W Photo Color Toning: Neutral Print Quality: Your choice -

We recommend 1200-2800dpi

High Speed: Prints faster, may reduce quality

Advanced Color Settings tab

Tone: Dark

6. Save

Continue on page 11



Printing From InDesign

- Turn printer on, log in to computer

- Download your fully *Packaged INDD Folder* to Temp Storage, open from that location

1. View > Proof Setup > Custom...

- Device to Simulate: choose appropriate paper type
- Uncheck all boxes, hit OK

View Window Help			Customize Proof Condition
Preview on CPU Overprint Preview	ዕE የ <mark>ዝ</mark> ሰፓ		Device to Simulate: EPSON SC-P9500_7500 Enhanced Matte Paper
Proof Setup	►	Custom	Display Options (On-Screen)
Proof Colors		✓ Document CMYK - U.S. Web Coated (SWOP) v2	Simulate Black Ink
Zoom In	¥=	Working CMYK - U.S. Web Coated (SWOP) v2	
			Description Position the pointer over a heading to view a description.

2. File > Print

Printer: EPSON SC-P7500 Series

Color Management tab

Print: Proof

Color Handling: Let InDesign...

Printer Profile: Your paper type

Uncheck Simulate Paper Color

Setup tab

Rotate orientation if necessary Page Position: Centered

3. Page Setup... button (lower left) see page 9 for pre-set sizes see page 12 to create custom size

4. Printer... button

Expand window with "Show Details" Layout dropdown to Printer Settings see page 10

Print Print Preset: [Custom] Printer: EPSON SC-P7500 Series General Color Management Setup Print Marks and Bleed O Document (Profile: sRGB IEC61966-2.1) Output • Proof (Profile: EPSON SC-P9500 7500 Enhanc... Graphics Color Management Options Advanced Color Handling: Let InDesign Determine Colors v (i) Summary Printer Profile: EPSON SC-P9500_7500 Enhanced... ~ Output Color: Composite RGB Simulate Paper Color

Cancel

Print

Description If checked, the proof will simulate what colors look like on the paper of the simulated device (absolute colorimetric rendering intent). For e, if the proof is meant to simulate newspaper, im bear darker in the proof. This option produces the Page Setup... Printer... (Save Preset...

5. Hit Print (and again)

Please note:

If you are printing a multi-page document, or double-sided photo book, we reccommend using sheets vs. roll paper. We sell paper by the sheet in the SB (double-sided matte finish paper is available), or you are welcome to provide your own.

If printing double-sided, let the prints dry for at least an hour before printing other side.

Printing From Illustrator

- Turn printer on, log in to computer
- Download your Packaged AI Folder or EPS file to Temp Storage before opening

1. View > Proof Setup > Customize...

- Device to Simulate: choose paper type (MK)
- Rendering Intent: Relative Colormetric
- Uncheck all boxes, hit OK

View using CPU %E Outline %Y	
Overprint Preview て企業Y Pixel Preview て業Y Trim View	
Presentation Mode	
Screen Mode	
Proof Setup	✓ Working CMYK: U.S. Web Coated (SWOP) v2
Proof Colors	Legacy Macintosh RGB (Gamma 1.8)
Zoom In %+ Zoom Out %-	Internet Standard RGB (sRGB) Monitor RGB
Fit Artboard in Window 第0 Fit All in Window て第0	Color blindness - Protanopia-type Color blindness - Deuteranopia-type
Show Slices Lock Slices	Customize

2. File > Print

Printer: EPSON SC-P7500 Series

Color Management tab

Color Handling: Let Illustrator...

Printer Profile: Your paper type

Rendering Intent: Relative Colormetric

General tab

Choose Artboards to print or ignore Rotate orientation if necessary

3. Page Setup... button (lower left)

<u>see page 9</u> for pre-set sizes see page 12 to create custom size

4. Setup... button

Expand window with "Show Details" Layout dropdown to Printer Settings see page 10

5. Hit Print (and again)

Please note:

If you are printing a multi-page document, we reccommend using sheets vs. roll paper. We sell paper by the sheet in the SB, or you are welcome to provide your own. If printing double-sided, let the prints dry for at least an hour beforae printing other side.



		FILM	
	Print Preset: Cu	stom ~	*
	Printer: EP	SON SC-P7500 Series ~	
General	Color Management		
Marks and Bleed	Print Method		
Output Graphics	Document Profile	: sRGB IEC61966-2.1	
Color Management	Color Handling:	Let Illustrator determine colors	
	Printer Profile:	EPSON SC-P9500_7500 Enhanced Matte Paper	
	Rendering Intent:	Relative Colorimetric	
		Preserve RGB Numbers	
	Description		
M ▲ 1 of 1 → M Document: 8.5 in x 11 in Media: 8.5 in x 11 in			
(Page Setup) (Setup)		Done Cancel	Print

Ink Low Warning

- An INK LOW message on the printer's LCD display is not cause for concern
- When the ink cartridge is empty, printing will stop and the display will say INK OUT, the ink cartridge can be replaced and printing will resume seamlessly
- You may have to use a full ink cartridge in order to run a head cleaning, please replace the older/low ink cartridge after cleaning

Replacing Ink



You are welcome to replace ink cartridges when necessary! We will leave replacement inks near the printer if we notice that it is getting low.

Ask SB staff to assist you if you do not feel up to the challenge.

File Not Printing

If you went through all of the printing instructions accurately, hit print, and nothing is happening it could be a few different things.

Do you have enough money in your Papercut Account?

papercut.mcad.edu

Paper too low to print?

At 4 feet or less, the printer will wait for a new roll before resuming with printing, please notify SB staff if the paper appears to be too low to complete your print job - the paper length remaining will appear on the LCD screen on the printer

Did you set up your custom paper size with the WIDTH at 24"?

The printer may crop your file weirdly, sending out a small portion, or startle you by shooting out a bunch of paper without a print) if you set the width over 24". Rotate your image, and set your width to no more than 24" - length may be up to 96"

File too big?

If you have an extra large image to print (even if the file size is not extraordinary) it will take extra long to process and print, so please allow for that.

If your file size is particularly large (1gb or higher), please make sure to flatten your file, delete any channels/adjustment layers.

File should be in 8 bit mode rather than 16 bit.

DPI should be 300 or around there (no less than 150, no more than 400).

Is your file on the Temp Storage on the computer?

If you are printing from a connected server or external hard drive, you can experience file corruption and server interruptions that can cause files to not print, or result in your print looking strange.

Nozzle check or head cleaning cycle not complete?

Wait for it to complete, and return to the "ready" status menu

Printer not on?

LOL it happens more than you would think

When in doubt, shoot the SB an email (<u>sbureau@mcad.edu</u>), pop over to the Service Bureau for extra assistance, or <u>make an appointment</u> for a printing demo.

Color Gamut Warnings

These printers can reproduce a very wide range of colors, but you will find that there are certain tones that are not possible to translate from screen to print.





You always want your artwork files to be in RGB to give you the widest range of colors available on the screen.

But remember that the printer uses CMYK inks to reproduce the colors seen on your screen.

We do a "soft proof" with our preferred paper type, to see how our colors will translate. (View > Proof Setup step in print instructions)

Most of the time, you won't notice much of a difference, if any!

If you do notice a difference, it means that the printer cannot reproduce *that* color on *that* paper type (PK finish papers will give a slightly wider color range), and you will need to make some adjustments to your file to get the color closer to what you prefer. We have noticed the most trouble with deep purpley-blue colors.

Try View > Gamut Warning to see what colors might be outside of the color gamut (or available color range).





Head Strikes or Banding



Head Strike (see "ink smudges") Print head causes streaks, commonly due to excessive curling or thickness of paper. Becommended to flatten paper, adjust platen

Recommended to flatten paper, adjust platen gap and wait for excess ink on print heads to dry.

(see "nozzle check") Banding

Clogged print nozzles cause one or more color to not print, causing stripes and missing colors. Run a nozzle check before printing to aviod. Remedy by running head cleaning, may need to run cleaning more that once.

Print Appears Too Dark

If your prints are coming out really REALLY dark (much darker than the screen), you might be forgetting one, little, easy-to-forget step.



Color Management needs to be set before continuing to Print Settings:

Color Handling: Photoshop Manages Colors.

Printer Profile: Epson SC-P9500-7500 Enhanced Matte Paper

Often the Printer Profile is left at "Working RGB – Adobe RGB 1998," which is wrong.

Computer Issues

If you are experiencing issues with the computer, please contact <u>computer</u> <u>support</u>, or stop by <u>the Help Desk</u> during business hours.

Application Knowledge

If you need assistance with Adobe programs (beyond print setup) such as; file setup and creation, image resizing, color adjustments, or assignment specific issues and troubleshooting. Please refer to your professor/instructor, or make an appointment with <u>the Learning Center</u>.