iJetColor 1175 Operator Manual







Support Team https://www.ijetcolor.com/support



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Section 1 - Installation Guide

1.1 Printhead Set up and Cabling

Details on the machine set up can be found in Section 2.

A quick overview of connecting the head and cables is pictured below:

1. Remove the printhead from the box and set it on the mounting arms. Line up the feet with the holes and insert the silver shoulder bolts.





2. Insert the cables into the back of the head using the annotated diagram below:



- a. The power cable
- b. The encoder cable
- c. The feeder cable



- d. Not used on the 1175C
- e. USB (to RIP)
- f. Not used on the 1175C
- g. Ethernet (to RIP)
- h. RIP USB (to RIP)
- i. Lift Controller (to RIP)
- 3. Attach the monitor mounting pole, then add first the keyboard arm, then the monitor arm. Tighten them in place using an M6 Allen wrench.





4. Insert the HDMI and power cables into the monitor.



1.2 Powering on the Printhead

To power on and off the printhead correctly, a few steps must be followed.

1. Turn on the main power switch for the base.



- 2. Turn on the power switch for the printhead.
- 3. Press the power button located on the front of the printhead. Ensure the LED is lit up to indicate the printhead is powered on.



To properly power down the printhead:

- 1. Press the power button located on the front of the printhead. After a couple of seconds, the LED should turn off. Once the LED turns off, you are safe to proceed to step two.
- 2. Turn off the rocker switch located on the back of the printhead to completely shut down the printhead.
- 3. You can now switch off the rocker switch on the base to kill all power to the tabletop.

1.3 Launching and Closing the Flow Software

The software for the Flow is two parts: Navigator Server and DFE. The DFE stands for Digital Front End and provides a graphical interface for printing. The DFE is dependent on the Navigator Server running to communicate with the printer.

The steps to launch the Flow software are as follows:

- 1. Launch the Navigator Server located on the RIP/PC Desktop background.
- 2. Launch the DFE located on the RIP/PC Desktop background. It will launch in your default web browser.



The steps to close the Flow software are as follows:

- 1. Close the DFE tab in the web browser.
- 2. Under the Navigator Server application, click on "File" in the upper left corner. Select "Exit" from the drop-down menu.

Note: The Navigator Server will take roughly a minute to fully shut down the application. When shutting down, the server makes a backup of the DFE and all changes since launching. While it may appear that the server is not responding, do not force quite the application or no backup will be saved.

1.4 Introduction to The DFE (Digital Front End)

The Navigator Digital Front End is a print management system for digital printers. It supports web and sheet fed printers and printing presses from desktop to light industrial to heavy industrial.

Based on the fast and accurate Harlequin Host Renderer, the Navigator DFE can prepare your jobs. It helps you keep track of jobs, position them on paper, controls the color with several color management and calibration tools, and is ready to support a host of inkjet drive electronics and printheads from many manufacturers.

Here is an introductory look at the interface and the controls.

The main job screen is divided into two main sections:

- 1. The top third is feedback from the DFE and from the printer about the current print job.
- 2. The bottom 2/3 is the job queue.



The UI is designed to work just as well with a touch screen or a keyboard and mouse. Consult your sales representative for a recommendation of a compatible touch screen.

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Paper: Envelopes High Res 1 Othest: 0.000, 0.000 Votal Size: HP Default Leyout:	Status: © Ontine Printer Idle System: Ready Mossage	25 35	575 235
VIINT QUILUE RECENTIONS ARCHIVE	1 0		

Looking at the top third of the main screen:

- 1. Feedback is always in front of the DFE operator.
- 2. On the left-hand side, you will find job data.
- 3. In the center is the thumbnail view of the current printing job.
- 4. On the right is feedback from the printer and printer controls.
 - Cancel or pause the running job.
 - Access the printer control panel.

The primary job ticketing is done through this interface, which pops up automatically when you submit a job:



1.5 Adding Jobs to System

There are three ways to enter a job into the Navigator DFE:

- 1. The Add Job Button
- 2. Drag and Drop
- 3. Hot Folder

Add Job button

Locate the add job button on the web interface.

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Job Det Paper Offset Media S Layout	6			X	ITRO	Ì,
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Select the + button. Navigate to your file in the pop-up window. Select your file, then select the OPEN button.

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🗄 Documents	No10Unleashed_Front bleed.pdf	4/4/2013 9:55 AM	Adobe Acrobat	
- Downloads	P2P51x.pdf	1/9/2019 9:12 AM	Adobe Acrobat	
FI-1000 Fixedher	Print it bright.pdf	5/30/2017 5:01 PM	Adobe Acrobat	Marine Sal
Music	Pro Mailer.pdf	2/1/2018 1:55 PM	Adobe Acrobat	
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- Heervone	Verify Ink.pdf	10/15/2014 9:35 AM	Adobe Acrobat V	1
~	<		, O O Ld	

Drag and Drop

You may also simply drag a PDF right over the "Add Job" button. When the icon of the PDF says "Copy", you can drop it.

1						
	Job Details					
SI	Paper:					
	Offset:					
	Media Size:					
	Layout:					
0×1	PRINT QUEUE	RECENT	JOBS		ARCHIVI	E
Γ	Copy					
1	PDF	Job				
City	Ravk C	10 x 13	NXT	Print	18.pd	f
Mol		10 x 13	NXT	Print	18.pd	f
				-		

Whether you Drag and Drop or use the file navigation window, you'll come to the same job ticket window. After the file is uploaded the QUICK EDITS screen is opened.



In this screen you can make various changes such as rotations, print range, collation, etc. You can also select the FULL JOB EDITOR at the top right.



In this screen you can do the same changes as the QUICK JOB EDITOR as well as changing the Paper Profile, Overall Color Changes and Spot Color Adjustments. When you have made any necessary changes, select "Print" and your file will be sent to the printer.

Hot folder

You can save or copy or drag a PDF directly to the DFE folder at c:/Navigator/Workflows/Flow.

- → ~ ↑ <mark>□</mark> י	This PC	Navigator > Workflows >			~ Õ	♀ Search Workflows
Organize 👻 New fo	lder					
Quick access Desktop Convoloads Documents Pictures	Name Flow	~	Date modified 6/21/2023 1:10 PM	Type File folder		

Files copied in this way will go directly into the queue on hold with default configuration settings. Note: Be sure to drop the files into the *Flow* folder itself and not the parent folder *Workflows*.

							Printed	0 of 1	ē
	1	A water and a second				FI-1000 Status Printer System	© Online Idla Ready	205 945 925	15
		新				Message	0		
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You can either release the job to print or edit the job's settings before printing. To edit the print settings first, highlight the job and click the Edit Job button.



To simply print the job with default settings, highlight the job and click the Release button



1.5 Setting Up the Feeder

Please refer to Section 3.3 for a detailed walk through of the feeder.

To set-up the feeder:

1. Adjust the paper guide fins to fit the media you wish to print. Ensure the side guides are tight but still have a 1/16th inch gap between the media.



2. Slide the envelope under the yellow foot and adjust the sheet separator. Adjust until the envelope just beings to bow under the yellow foot.



Lower the sheet separator by turning the adjustment knob counter-clockwise

Adjust the separator down until it just begins to buckle the envelope

3. Align the non-operator alignment section media guide and operator side media guide to the paper guide fins.



4. Adjust the media hold down straps and black wheels so they are evenly spaced, and the media passes below.



5. Use the Jog button located on the back of the feeder to ensure everything is running properly. Adjust if necessary.



Please refer to Section 3.3 for a detailed walk through of the feeder.

Section 2 – Operating the Printer

2.1 Advanced DFE (Digital Front End)

2.1.1 Editing existing jobs.

To edit an existing job in the Web Client, select the job, then click the Pencil to open the job ticket editor.



Note: Alternatively, you can double click on a job to open the edits menu.

Quick Edits Full Job Editor
Offset inches
H 💿 🔇 🛟 🔕
V 0 Print Options Test Print Print All Range
Quantity Page Range
1 1-1
Quality High Resolution
Collate
Scaling

Once selected, the Quick Edits pop-up come up



Make your changes here, or if needed select the Full Job Editor in the upper right

Make your changes and select print.

2.1.2 Job Tickets - More detail on printing jobs

Depending on your <u>preference</u>, when a job is submitted it will open either the *Quick Edits* job editor or the *Full Job Editor*.

Examples follow.



	Offset Inches	Quick Edits Full Job Editor Media Size Original C
	H 0 3 C 0	Layout
	Print Options Test Print Print All Rang	- + +
	Quantity Page Range 1 1-16 Quality Best, Compressed	- + + + + + + + + + + + + + + + + + + +
2007	Collate	Spot Colors (none)
		Archive Cancel Print

We'll use the Full Job Editor to walk through the controls.

- 1. Thumbnail preview of page 1 of the input PDF file.
- 2. rotate and move the PDF on the media
- 3. print options. page range, page order, copy count, quality
- 4. Media size, layout on media (imposition)
- 5. Color management
- 6. Archive on/off



We will discuss 1, 2, and 4 together. Positioning, Media, and the Thumbnail.



You have standard page size choices under *Media*. You can always just allow the software to pick up the original media size from the input PDF. If you wish to reposition the PDF onto a different media size, you can choose a new media size and do so.

e.g. 11x17 Tabloid. The job is positioned on a grey rectangle, representing the new media size, and shows your image position on that media.



You can nudge it up or down, side to side with the arrow buttons or type in horizontal and vertical offsets in either positive or negative numbers. We will show you the changes you make in real time. For example, we will click the rotate button in the center of the positioning controls:

	Offset inches	Quick Edits Full Job Editor Media Size Tablaid 11 x 17 :
90		Color Paper :
Si de la	Print Options Test Print Print All Range Quantity Page Range	- · · · + - · · · + - · · · +
	T Guality Best, Compressed Collate	Spot Colors (none) Preserve 100% Black
	[Archive Cancel Print

The *thumbnail* view window has some hidden controls. First, here is a smaller job sitting on a larger media:

Quick Edi Offset Inches		
н	0 0 0	
Print Options Test Print	V 0 Print All Range	
Quantity	Page Range	
Quality Collate		•
Archive	Cancel Print	

Now, when you click anywhere on the thumbnail, the anchor points appear.

Ŷ	Ŷ	Ŷ	Quick Edits Offset Inches	Full Job Editor
Ŷ		Q		
		IJ	Print Options Test Print Pri Quantity 1 Quality	nt All Range Page Range 1-1
Ŷ	Ŷ		Collate	

The anchor points govern how the rotation and movements happen. The default is to be anchored at the center. Rotating the job means it rotates around the center point.

But if I change the anchor point to the left center, it changes the rotation and movement starting points.



Right away the job moves to the new anchor point. That is the new zero point for the movements too. If I rotate 180 degrees, the job will stay anchored to the left.

Quick Edits Offset Inches	Full Job Editor
н 💽 🔇	
Print Options	v 0
Quantity	Page Range
Quality Collate	
Archive Car	ncel Print

2.1.3 Print Options

Number 3 in the diagram above.

Print Options	A REAL PROPERTY.
Test Print All Range	
Quantity Page Range	
1 1-16	
Quality Best, Compressed	
Collate	

Test Print prints 1 copy of the first page. It is optional. It leaves the job in an incomplete, unprinted status so it can be printed in its entirety when you are satisfied. *Test Print* prints a proof so you can check positioning and color. If you are unsatisfied with the print, you can adjust and try again. If you are satisfied, then choose *Print All* or *Range*.

After you have done a *Test Print*, the job remains in the print queue until you have printed it using one of the other two options.

Print All automatically fills in the *Page Range* fields with all the pages in the job and sets quantity to '1'. You may change the quantity. After you set this, click *Print*. After this print completes the job will be removed from the print queue. You may find it in "*Recent Jobs*" if you need to reprint it for some reason.

Range allows full control of quantity and page range. You may type commas and/or dashes into the *Page Range* field. e.g., an entry of "1, 5-8" will cause pages 1, 5, 6, 7, and 8 to be printed. "1-1" will cause only page 1 to be printed.

Quality will have choices dependent upon your printer. The iJetColor 1175p will have the options "High Resolution" (1200 dip output) and "Production" (600 dpi output)

Collate changes print order for multiple page jobs that are printed with multiple copy counts. e.g., If you print a 3-page job with a copy count of 2 then unchecking *Collate* will cause it to be printed in the order 1,1,2,2,3,3. If you print that same job with *Collate* checked it will print in the order 1,2,3,1,2,3.

2.1.4 Color

Number 5 in the diagram above.



The color controls, in order: Paper profile (ICC color management), Color sliders (global color adjustment), Spot Color Adjustment, and Black preservation. These are all discussed in detail in the Color Management chapter.

2.1.5 Archive and reprint

When you print a job, you have the option to check "Archive". If you do that the job ticket will be saved with the job and the job can be re-printed from the archive exactly as it was last printed.

Note: Jobs that have the archive checkbox selected only get moved to the "Archives" folder if the job is deleted. It is a safeguard against accidental deletion.



Below you will see a job in the queue, printing. It has the Archive checked, as you can see.

Art Council 6x9 pdf								Printed	0 of 1	0
Jab Details Paper: Envelopes High Res 1 Offset: 0.000, 0.000 Media Size: HP Default Layout: PHINT QUEUE: RECENT JOBS INCHVE							FI-1000 Status Printer System Message	© Online Idle Ready	275 955 IBV	
) ± / ▶ ≣ ▶						(q.			Vieweng 3 jobs	1
Presiew Julii No10env3.pdf	Guentity	Pages	Paused	Meita Size	Arctine					
] 🖉 Spot Colors - Eagle Logo.pdf	1	1	Paused	HP Default						
Art Council 6x9.pdf	1	1	Canceled	HP Default	\bigcirc					

4

There are 3 places to find jobs. The *print queue, recent jobs,* and *archive*.

PRINT QUEUE	RECENT JOBS ARCHIVE	
Preview	Job	Date / Time 🔻
	No10env1.pdf	2023-06-13 10:38:20 -0500
	10 3 COLOR CORNER cropped.pdf	2023-06-13 10:23:25 -0500

When a job is complete it will go to *recent jobs* for a while. It will eventually be deleted from here. The system keeps the last several jobs after they were printed in case something goes wrong in finishing. You can always reprint a job from *recent jobs* or from the *archive*.

The path for jobs through the queues is this:

1. New jobs enter the Print Queue. When they are printed, they are removed from the Print Queue and go to Recent Jobs.

2. Completed jobs go to the Recent Jobs area. They will be deleted from here when more jobs are entered into the system. You may also delete them manually if you choose.

3. When a job is deleted from *recent jobs*, it either disappears or it goes to the archive. So, if you don't see your archived job in the *archive*, it's probably in *recent jobs*.

If you can't find a job easily, you can search for it in the search field:



To run a job from the archive, select the job and click or push the requeue button.

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XITT	ion,			
Art Council	6x9 pdf		Printed 0 of 1	ŝ
Job Details			FI-1000	
Paper;	Envelopes High Res 1	AND THE REPORT	Status: © Online	
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	HP Default		System Ready an or a Message	1 4
Layout:		La distanti di seconda d		
			1	
MONT QUEUE	RECENT JOBS ARCHIVE			
			(g, Wearing 2 pits	
			d' named 5 box	
Dravister	300	Date : Time *		
	No1Denv1.pdf	2023-06-13 10:38:20 -0500		
Contra Co	10 3 COLOR CORNER cropped.pdf	2023-06-13 10:23:25 -0500		

The recent jobs queue acts just like the print queue. If your job is in here, click the edit (pencil) button to reprint it.

D DFE x	+										100	0
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Art Council 6x9 pdf								р	riniled		0 of 1	6
Job Details				The second second			FI-1000					
Paper: Envelopes High Res 1 Offset: 0.000, 0.000 Media Size: HP Default Layout:							Status: Printer System Message	© On Idia Re			ERS BASY 75	
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		Questily	Pages	Status	Madia Sua Archiva	(Q					Valeng 14 jobs	4
Provine Jeb No10env2.pdf	•	50	1	Complete	HP Default	Q					Weining 14 jobs	(
Proview Jeta No10env2.pdf	•. 10 env K, PM/S 376pat	50 60	Papes 1 2	Complete Complete	HP Default HP Default	(9					Weining 14 jobs	(
	•. 10 env K, PM/S 376pat	50 60 70	1	Complete	HP Default HP Default HP Default	Q					Veung 14 jobs	(
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Image: Section of the sectio	•. 10 env K, PM/S 376pat	50 60 70	1	Complete Complete Complete	HP Default HP Default HP Default	Q					Weening 14 jobs	(
Image: Section of the sectio	•. 10 env K, PM/S 376pat	50 60 70 80	1	Complete Complete Complete Complete	HP Default HP Default HP Default HP Default	<u>(q_</u>					Viewing 14 jabe	(
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2.1.6 Global Color Adjustment

Global color adjustment is a simple curve adjustment on the mid-tones. Unlike ICC profiling, calibration, or spot color adjustment, global color adjustment is not scientific or targeted at particular elements in a job. It's more of a 'quick and dirty' tool and it affects the whole job.

The interface consists of five sliders. One slider each for CMYK and one more for darkness/lightness. The darkness/lightness slider affects all 4 color channels together. You can stack changes. Examples follow.



How do you get a job darker?





Even darker but still color balanced?





2.1.7 Spot Color Adjustment Tool

The Navigator DFE contains licensed Pantone libraries, so you get the best possible color match on your digital printer. To use those libraries, you need two things:

- 1. Input PDF files with defined spot color channels
- 2. A Paper profile configured with the "treat spot colors as CMYK" turned OFF.

What if you want to get a closer match on a new paper? Or what if you need to match a previous printed process instead of being "accurate"?

The spot color adjustment tool walks you through the process of printing patches to override those libraries and/or update them to contain new definitions. These new spot color recipes can be saved into separate color databases which may be automatically applied to selected jobs when appropriate. You may have as many spot color adjustment databases as desired.

This job has two spot colors. The spot color workflow might go something like this: Bring the job in for the first time.

Click Test Print. (You will get 1 copy of page 1 printed out so you can check for color and positioning.

Should you decide that the spot colors need adjustment, edit the job, and click the blue button to the right of the *Spot Colors* database dropdown menu. If you are in printing, you'll recognize that as a representation of a Pantone fan deck:





We chose Pantone 121 for our adjustment. Notice the CMYK sliders. If you believed strongly in yourself, you might just slide those to change the color.

Note: You can also type values into the percentage boxes.

Color Name			Cyan	•		0	96
PANTONE 195 C							-
PANTONE 121 C			Magenta	•		11	%
			Yellow	_	•	69	%
			Black	•		0	96
			Spot				
	(Annual)						
Apply Adjustments From Set:	(none)	• • -				. Circu	-
Apply Adjustments From Set: Adjustments will be applied ont						Ţ	T

However, for more help selecting the new color recipe, click on the icon of the printer. That will give you a lot more help.

Color Name PANTONE 195 C		14	Cyan	•	0 %
PANTONE 121 C			Magenta	-•	11 %
			Yellow		69 %
			Black	•	0 %
			Spot		
Apply Adjustments From Set:	(none)	: + -			
Adjustments will be applied only	to this job				



We suggest the most appropriate changes automatically, but there are some optional moves you could make concerning color choice, the degree of color change, paper size:



The swatch sheet page:



When you are happy with your swatch variety, print it.
Compare the swatches to printed material or read them with a spectrophotometer. If you choose to print them envelope size, they will print on two envelopes.



The middle row prints on both envelopes. Overlap them and make your choices.





If you choose to print A4 or Letter, you'll get this:

Here's how it works:

Whichever swatch you pick from the printed output, you click on the screen.

Go to the interface and point at the one you liked on the prints. That will become the new center. In the example case, I'm picking the bottom center.





If you decide it's almost, but not quite, right, then adjust the color steps lower, and go again:

Once you are satisfied, click the check box. You'll come back to the color list and sliders. The original color has an arrow on it. The altered color is in the middle bar.

Color Name		Cyan	•		0 9
PANTONE 195 C		Magenta			25 9
PANTONE 121 C		Mayenta			25
		Yellow		•	69 9
		Black	•		0 9
		Spot			
Apply Adjustments From Set:	(none)	🔁 • - 📃			-
Adjustments will be applied only	r to this job				

You can also save spot colors as a specific set. Selecting the Color Name, hit the "+" icon. You can then name the color. Once you name the color, save it. It will then show up in the dropdown menu. You can apply the saved color set to jobs with identical PMS spot colors in the Full Job Editor.

Note: When saving colors in a job as a set, all the colors in that specific job are added to the newly saved set.

		Quick Edits	Full Job Editor
	Offset Inches	Media Size HP Default	: 0
Color Name PANTONE 195 C PANTONE 121 C	Cyan • Magenta •	0 %	:
2	Yellow Vellow New Spot Color Adjustment Set Name	• 69 % 0 %	es 1 + +
Apply Adjustments From Set (none) Adjustments will be applied only to this job	Customer A Cancel OK		+ + + (none)
	Scaling ↔ 100 100		Queue
Spot Colors - Eagle Logo.pdf 8.27 x 11.70 inches		Archive Cancel	Print

Next time you run a job from this customer you can submit the job like the job ticket below and just hit "Print".



2.1.8 Preserve 100% Black



Under normal circumstances, the DFE will process any instance of 100% black in the artwork as a 4-color process black. This results in a deeper, darker black output. The "Preserve 100% Black" button, when checked, will cause the RIP to print instances of 100% black using only black ink. It is worth noting that this only applies to 100% black. Lesser grades of black will be 4-color output.

2.1.9 DFE settings, preferences, configuration

								Printed	0	
Job Details							FI-1000			
Paper Offset Media Size Layout		•	XITRO				Status Printer System Message	© Online Idle Ready	HS NS 1	n, et
PRINT QUEUE RECENT JOBS ARCHIVE						Q			Viewing 3 jobs	(
PHINT CUELE RECENT JOBS ARCHVE	Gunnity	Pages	Status	Mindian Sizze	Archive	Q			Verning 3 jobs	(
PHINT CUELE RECENT JOBS ARCHVE	Guantity	Pages	States Paused	Media Stee HP Default		(q,			Viewing 3 jabs	(
PRINTQUEUE RECENT JOBS ARCHIVE	Guantity 1	Pages 1 1				(9,			Viewing 3 jobs	(

Configuration for the DFE is performed behind the *Settings/Gear* button.

There are 4 possible destinations in Settings; FI-1000, HP Advanced, Cost Calculator, Get Support, and the Gear icon.

FI-1000 HP Advanced Cost Calculator Get Support	Ø
Apply	Start Belt Start Feeder Enable TOFs
Pen to Paper Spacing (100ths of mm): 5100	Target Belt Speed: 15 IPS V
Top of Form Offset (1/2400ths inch): 21700	Current Belt Speed: 15
MAX Page Gap (inches): 180	Remaining Service Station Life: 93.4%
COM Port: 8	FW rev: CLSTPWPP1N001.2439A.00
Feeder Jam Detection (100ths of inch): 0	System Serial Number:
Print Mode: Static Last printer message: ready version 2.1	
151	

FI-1000 tab

Contains settings related to the Print engine.

FI-1000 HP Advanced Cost Calculator Get Suppo	n 🛇
Apply	Start Belt Start Feeder Enable TOFs
en to Paper Spacing (100ths of mm): 5100 1	Target Belt Speed: 15 IPS ▼
op of Form Offset (1/2400ths inch): 21700 2	Current Belt Speed: 15
IAX Page Gap (inches): 180 3	Remaining Service Station Life: 93.4%
IOM Port: 8 4	FW rev: CLSTPWPP1N001.2439A.00
eeder Jam Detection (100ths of inch): 0 3*	System Serial Number:
rint Mode: Static 🖌 5	
ast printer message: ready	
rsion 2.1	

- Pen to paper spacing This is a setting that controls how far the print bar will lower when it prepares for printing. A higher value here will cause the print bar to lower further thus printing closer to the media. The typical setting for envelopes is 5100 by default. Note: The Min/Max range is 5050-5150.
- 2. Top of Form Offset This value will allow the user to change the lead edge gap between the edge of the stock and where the printing starts. If you increase this value, it will increase the gap (move the image further down the stock). Typical default setting is around 21600. Note: this value is in 2400ths of an inch.

Note: When setting the Top of Form offset in the DFE, the default value is 21600 for TOF Sensor Rev A and 32000 for TOF Sensor Rev B. Sensor Rev A is an externally mounted sensor while sensor Rev B is mounted beneath the printhead itself.

- 3. MAX Page Gap and Feeder Jam Detection– These both denote the maximum gap between pages. Once that gap has expired, the job will error out, citing a jam. MAX Page Gap allows for wide gaps between pages before an error is thrown, whereas Feeder Jam Detection Deals in spans of hundredths of an inch, allowing for dramatically tighter tolerances, at the cost of jamming more easily. Between these two, the setting which is the shorted span of time will predominate. Feeder Jam Detection can be turned off entirely by setting it to 0.
- 4. COM Port This is a setting for the USB Com port from the printhead. This setting should match the COM port (USB Serial Port) assigned in the **Device Manager**. If this is set improperly the belt speed will not be displayed correctly and the feeder will not feed on auto.

📇 Device Manager

• 🔿 🖬 🚰 🖬 晃	
븝 HR4022	
> 4 Audio inputs and outputs	
> 📃 Computer	
> 🚰 DellInstrumentation	
> Disk drives	
> 属 Display adapters	
> 🔮 DVD/CD-ROM drives	
> 📓 Firmware	
> 🐺 Human Interface Devices	
> 🥅 Keyboards	
> III Mice and other pointing devices	
> 🥅 Monitors	
> 🕎 Network adapters	
✓	
🙀 FI-1000 Fixedhead Print Engine	
> 📕 Portable Devices	
V 🛱 Ports (COM & LPT)	
Gommunications Port (COM1)	
Intel(9) A dia Management Technology - SOL (COM3)	
USB Serial Port (COM4)	
> 🛱 Print queues	
> Processors	
> I Security devices	
Software components	
Software devices	
Sound video and name controllers	

5. Print Mode: There are several available print modes on the iJetColor 175C: Normal, Static, and Roll-to-Roll. These each have to do with how the printhead processes jobs through its memory. Normal and Roll-to-Roll are primarily used for product development here at Printware, and will slow down production if used in the field. The best option to select is Static.

FI-1000	HP Advanced	Cost Calculator	Get Support		Ø	×
Apply				Start Belt Start Feeder Enable TOFs		
Pen to Paper Sp	bacing (100ths of	f mm): 5100		Target Belt Speed: 6 15 IPS -		
Top of Form Off	set (1/2400ths in	nch): 21700		Current Belt Speed: 15		
MAX Page Gap	(inches):	180		Remaining Service Station Life: 93.4%		
COM Port:		8		FW rev: CLSTPWPP1N001.2439A.00 9		
Feeder Jam Det	tection (100ths o	f inch): 0		System Serial Number: 10		
Print Mode: Last printer me	ssage: ready 1	Static 🗸				ľ
version 2.1						

- 6. Target Belt Speed This is the speed that the belt will get up to when turned on. The options are 12, 15, and 18 in/s, and can be selected from the dropdown menu.
- 7. Current Belt Speed This is the speed of the belt in inches per second. Please note that the belt must be running, and a proper value displayed here for the printing to proceed.
- 8. Remaining Service Station Life This is the estimated % left of the service station. Once this gets to 0% you will need to replace the service station.
- 9. FW Rev. Displayed the current revision of firmware loaded on the print engine.
- 10. System Serial Number Serial number of the main board of the printhead (if displayed).
- 11. Last Printer Message Shows the last printer error. If it is a non-critical error, it can be cleared by clicking the "Press OK" button.

On some older firmware versions, you may see the following options:

Disable REST – Disables communication with the printhead. This is only used by service technicians. Should normally be unchecked.

Save PCL Files – Saves the PCL file created by the RIP to the hard drive. This is only used by service technicians. Should normally be unchecked.

Save TIFF Files - Saves the TIFF file created by the RIP to the hard drive. This is only used by service technicians. Should normally be unchecked.

HP Advanced

Contains functions related to the cleaning and maintenance of the print engine.

Before ever running a cleaning, ensure that the service station cloth is advancing and has clean cloth across the top edge of the sled. You may have to run the "Check Service Sled" several times to advance the cloth to a clean section.

- Check Service Sled This function will drive the service sled to the right wall of the print head. In doing this it will also advance the cleaning material. Sometimes this is beneficial if the cleaning material under the nozzles is saturated with ink, this will advance the material to clean wiping material.
- 2. Eject Service Sled This function will eject the service sled for replacement. See appropriate section in this manual for this procedure.
- 3. Install Service Sled Allows you to install a new service sled. See appropriate section in this manual for this procedure.
- 4. Calibrate Service Sled After a new service sled is installed it must be calibrated. This sets the position of the sled properly so that the remaining service station life is reported correctly. Only run this command when installing a brand-new service sled as it always resets the life to 100%.
- 5. Mid-job Service This is a light cleaning on the print nozzles. Use this if you are seeing lines on the output. Note: You can run the machine immediately after performing this cleaning.
- Pen Recovery Level 0 This will do a more aggressive clean on the print nozzles. Use this if two
 mid-job servicing do not correct your problem. Note: Do not run the machine for 10 minutes
 after preforming a Pen 0
- Stall Recovery If there is an error such as "Printbar Stall" or "Service Station Stall", stall
 recovery will clear the error and re-set the system. If the error is a mechanical failure this error
 will come back after the reset.

8. Mid Job Servicing

Mid-job Service Time:	Pre Job 🐱
Mid-job Service Mode:	Page count based 🗸
Mid-job Service Page Count:	1000
Mid-job Service Job Count:	10

As you are printing a job the system will periodically stop the feed and do a mid-job servicing (Cleaning) the clean the nozzles of the printbar. A dirty and dusty stock will require more

frequent cleaning. The frequency of cleaning and the time at which this is performed is configurable. A good starting point is to do a "page count based" servicing every 2000 pages.

Mid-Job Service Time – Only used if the Mid-Job Service mode is set to "Job Count Based". Pre Job - Once the service interval for a job based servicing has been reached it will service the nozzles before the job starts printing.

Post Job - Once the service interval for a job based servicing has been reached it will service the nozzles after the job has been printed.

Mid-Job Service Mode – Options are "Page Count Based" and "Job Count Based"

Page count based will initiate the servicing after a specified number of pages had been reached.

Job count based will run the servicing after a specified number of jobs have been run.

Mid-Job Service Page Count – Specifies the number of pages to be printed before the servicing.

Mid Job Service Job Count – Specifies the number of jobs to be printed before the servicing.

Job	Image B	C (mL/page)	M (mL/page)	Y (mL/page)	K (mL/page)	Cost/Page E	Cost/1,000
Letternead Brown.pdf		0.00088	0.00140	0.00244	0.00176	\$ 0.0065	\$ 6.47
Letternead Blue Gold.pdf		0.00167	0.00137	0.00122	0.00207	\$ 0.0063	\$ 6.33
Letterhead Blue Gold.pdf		0.00166	0.00136	0.00121	0.00206	\$ 0.0063	\$ 6.31
Letterhead Blue Gold.pdf		0.00166	0.00136	0.00121	0.00206	\$ 0.0063	\$ 6.31
Letternead Blue Gold.pdf	1000	0.00166	0.00136	0.00121	0.00206	\$ 0.0063	\$ 6.31
Letterhead Blue Gold.pdf	1	0.00166	0.00136	0.00121	0.00206	\$ 0.0063	\$ 6.31
Letternead Blue Gold.pdf		0.00356	0.00326	0.00312	0.00430	\$ 0.0130	\$ 13.01
ThankYou Envelope 5.75x4.375 INCHES		0.00089	0.00091	0.00104	0.00162	\$ 0.0048	\$ 4.76
Cyan Ink Cost		9	4				

Cost Calculator

The cost calculator can be used to determine the combined ink and printhead cost of running a print job after the job has been run. Its elements are described below:

A. Job Name – The first column provides the name of the print job.

- **B.** Thumbnail The second column shows a small thumbnail of the print job.
- **C.** Cyan Ink Cost In this section, the user can input what they pay for a cyan ink tank. This is used to determine the costs. If its value is modified, the light blue refresh button will need to be pressed to modify the table costs.
- D. C/M/Y/K Values These columns show the amount of ink used for a job, per page, in milliliters.
- E. Cost/Piece This column shows the cost per page for the print job.

More information can be found in Section 3.4, Job Cost Calculator.

Get Support

This tab brings you to the iJetColor support website. This has handy ways to contact our support technicians.



The gear icon

This icon lets you set some preferences for the web client.

Last Used		
Quick		Ful
On Job Edito	or Print	
Show Print Queu	e 🕥	
On-Screen K	leyboard	
Default Setting		
Units		
Metric		English
inches per secon	d OD	feet per minute

Job Editor Starts In:

You can choose whether the job ticket editor uses the "Quick Edits" or the "Full Job Editor" by default. Or you can have it use whichever was the last one you used.

On Job Editor Print: Please ignore this option.

On-Screen Keyboard:

When toggled, the system is set to pop up a touch screen keyboard on screen when you enter a field (such as the search field) where input is required.

2.2 The Die Adjustment Tool

The Die Adjustment Tool is an application found in the "Tools" folder on the desktop of the RIP computer. Its chief purpose is to move each color on each die in order to eliminate lines and gaps in the resulting print. Ink is sprayed through nozzles onto the media. These nozzles are microscopic in size and a large number of them are grouped into rectangles in a zigzag pattern. Each of these rectangles is a die. Each die can move from side to side independently of the two dice next to it.

2.2.1 Basic Operation

1.





- Box 1 shows all the dice with their corresponding numbers immediately below them. Die 0 is the furthest from the operator whereas die 13 is the closest to the operator.
- 3. Box 2 contains thirteen white rectangles. In each rectangle, there is a number which represents the location of the die relative to the die next to it. When hovering over one of these white rectangles, an outline will appear around the corresponding die in box 1 as shown in the picture below. The arrows pointing to the right will move a die to the right (away from the operator), and the arrows pointing to the left will move a die to the left (towards the operator). There is no rectangle that corresponds to die 0 because die 0 cannot be adjusted. It is assumed to be at the correct position by default.



- 4. Box 3 displays the die-to-die, color-to-color adjustments of each die.
- 5. Box 4 contains three buttons. The button on the right, or the reset button, resets all dice locations to zero. When pressed, a pop up will appear as shown below. To make the pop up disappear, press "Yes", "No", or the escape key on the keyboard. If "Yes" is pressed, all values will be reset to zero. There is no way to undo this action. If "No" or the escape key on the keyboard are pressed, no values will change and the pop up will disappear. The other two buttons will move all dice away from or towards the operator (left or right respectively). The button on the top with the arrow pointing to the right will move all dice to the right, or away from the left, or towards the operator. There is no confirmation for these last two buttons.



- 6. Box 5 contains the status and will display green for success, white while working, and red when there is an error.
- 7. Box 6 contains two buttons. The "Advanced" button switches to the advanced die adjustment menu. The advanced menu is for Printware technicians only, and carries a strong risk of ruining the print quality if adjusted without proper guidance. For this reason, it is not covered in this manual. The "Apply" button will send the data to the printhead to make the necessary adjustments. The relevant data will be sent to the printhead only when "Apply" is pressed.

2.2.2 Adjusting the die gaps

Here you will see how to adjust the dice to remove as many lines in the print as possible. Begin by opening the Die Adjustment Tool which is found in the Tools folder on the Desktop. When open, click the refresh button in the bottom left to change all numbers to 0. If the DFE displays the status of the printhead as online and ready, click Apply. The status (the text in the center bottom of the window) will turn white and display a working message. Wait until this text turns green and declares success before continuing. It should only take a few seconds.



3. The dice are numbered, but the gaps are not. But for the purposes of this document, if a gap/line is numbered, it is the gap/line on the right of the die of the same number. For example, line 1 is the gap between die 1 and die 0. Line 13 is the gap between die 13 and die 12.

4. Use the DFE to open Die Alignment Test Page.pdf, which is found in C:\iJetColor\Test Images.

Job Details								FI-1000	Printed	0	ð
Paper:								Status.	© Online		
Offset:				-				Printer:	idle		
Media Size:				XITI	200.			System:	Ready	25 215 205	385
						×			Neauy	10 10 10	- 475
Layout:	@ Open					~		Message			
	🗧 😑 😁 🕈 🦲 🕨 This	PC + Local Disk (C) + UetColor + Test	images +	~ 0	J ^{CI} Search Test In	roges		11	0		
PRINT QUEUE RECENT 3	CIE Organize * New folder	il			注	• • •					
	ICC Profiles	Name Alignment #10.pdf	Date modified 10/16/2012 1-43 PM	Type *							1
2 / 1	Tree Free	CalibrationChart.pdf	\$/15/2019 9/08 AM	Adulte Acrettat			(q ,			Viewing 8 jobs	Ç
Preview Job	KiPosition	CalibrationChart.ps	5/9/2019 11-49 AM	DS file			Media Size	Archive			
etexicw 300	CneDrive - Persor	CalibrationReference.ps	1/9/2019 11-49-AM	PS File			8600 500	ALCELVE			
		City of Mason pdf	W18/2018 11/12 AM	Additive Accellant							
	This PC	CMVK %x12.pdf	10/15/2000-0:32 AM	Adube Acrobat							
	3D Objects	Color Bars 11 50%.pdf	6/19/2010 1:30 PM	Admbs Acrobat							
	Desktop	Color Bars 11, piff	6/18/2019 10:58 AM	Addite Acretiat							
	Bocuments	Color Bars 117.pdf	6/18/2019 10:57 AM	Adulte Acrobat							
	👃 Downloads	Die Alignment Test Page.pdf	3/23/2023 2:15 (M	Adoba Acrobat							
	FI-1000 Ricedher	Envelope Registration Test put	10/12/2012 3/04 PM	Adobe Acrahat							
	Music	Gilbert Spot Color.pdf	2/6/2021 9/07 AM	Adobe Acrobat							
	Pictures	Gradient 1c.pdf	12/11/2018 3:23 PM	Adobs Acrobat							
	Vicleos	Gradient 4c.pdf	12/11/2018 2:20 PM	Adobe Acrobal							
		HP Printhead Test 11.6-pdf	12/4/2019 10:40 AM	Adobe Acrobat 🖌		1 of 1					
	🖕 Local Disk (C) 🖉 .			,		1000000					
	THE AU	me: Die Alignment Test Page.pdf			- All Files (°.*)	~					
					Open	Cancel					

5. Add the job as follows:

		Printed	0 🖶
lob Details		FI-1000	
Paper: Jobet: Hedda Sze: Jayout: Pervine Juit: Alignment Test Page		Otfset Media Nches Media Size IP Diset Inches Size IP Diset IP Diset IP Diset IP Diset	y Werving 1,00
	Die Alignment Test Page pdf 9.00 x 11.70 inches	Archive Cancel Print	

6. The job should be run with a 9x12 envelope with the flap side run against the fence on the alignment section. The cyan bars as shown in the image above should be printed on the leading edge of the envelope and offset horizontally by 2 inches. This offset should put the resulting print in the middle of the envelope. The color profile should always be No Color Management to avoid all four colors mixing together in each color bar. Print the job.

7. The result should look something like this:



8. As you can see, all the gaps between the dice are noticeable. This means all dice should be moved right in the basic menu or up in the advanced menu. In the basic menu, click the die button in the bottom left rectangle that has an arrow immediately above it pointing to the right. Because all the gaps are so noticeable, go ahead and click that button twice. If the DFE shows the status of the printhead as online and ready, click Apply and wait a few seconds until it shows success before continuing. The numbers in the Die Adjustment Tool should now be as follows:



9. Print the Die Alignment Test Page again using the same job as you created before. The result may look something like this:



10. The gaps between all the dice are obviously much better. However, there are still some lines that need to be closed. Adjusting one die is easier than adjusting all four colors individually so stay in the basic menu and move a few dice. In order to know if a whole die should be moved, check the same gap in all four colors. Moving from right to left, the line 1 looks like an overlap instead of a gap. To fix this, move die 1 to the left. There is a small gap in cyan, magenta, black, and possibly yellow in line 2. Move die 2 to the right to close the gap. Most of the other gaps except line 3 are still very noticeable, so move dice 5 through 13 to the right but leave die 3 where it is. If the DFE shows the status of the printhead as online and ready, click Apply and wait a few seconds until it shows success before continuing. The numbers in the Die Adjustment Tool should now be as follows:





1. The result may be similar to the following image, though each use case will be different:



Moving from right to left, line 1 looks nice, so leave that for later. You may notice a line that looks like a gap in die 4. This is a normal streak that can appear often and is fixed by doing a mid-job service or a pen recovery. The most offensive lines are lines 2, 5, 6, and 7. To fix them, move dice 2, 5, 6, and 7 to the right as shown below:

3. The fourth print should look better than the third:



5. This is as good as this file will print through the basic menu. You should be able to notice that none of the dice have the same visible gaps or overlaps in all four colors.

2.3 Feeder Setup and Use

Setting up the feeder to run your envelopes consists of the following steps:

- 1. Adjusting the paper guides for the width of your envelopes
- 2. Adjusting the sheet separator.
- 3. Adjusting the position of the back wedge assembly (rear envelope support)
- 4. Testing the feeder
- 5. Adjusting the feeder speed to match the printer.

Step 1. Turn the paper guide adjustment knob on the front of the bridge to move the paper guides outward towards the side plates of the feeder.



Adjust the paper guide fins out to fit the media

Step 2. Place an envelope between the paper guides on top of the feed belts (in the orientation you wish to run)



Step 3. Turn the paper guide adjustment knob to position the paper guides alongside your envelope edges. Do not press the guides too tightly against the envelope edges as this would restrict the movement of the envelopes when feeding. Leave about a 1/16th of an inch gap.



Step 4. Raise the separator tip by turning the adjustment knob on top of the separator assembly CLOCKWISE several turns.



Raise the sheet separator by turning the adjustment knob

Clockwise moves the sheet separator up

Step 5. Place the lead edge of your envelope underneath the separator tip. Position the leading edge of the envelope just past the lowest point of the tip.



Position the lead edge of the envelope below the sheet separator

Step 6. Rotate the separator adjustment knob COUNTER CLOCKWISE until the envelope is buckled slightly downward between the white feed belts.



Lower the sheet separator by turning the adjustment knob counter-clockwise

Adjust the separator down until it just begins to buckle the envelope

LEAVE THIS ENVELOPE IN POSITION AND PROCEED TO THE NEXT STEP

Step 7. Work a small stack of envelopes into a "shingled" stack as shown below with the bottom envelope forward.



Step 8. Place the shingled stack of envelopes on top of the single envelope in the hopper and carefully "tuck" them up against the white front guides. Try to assist the envelopes to follow the curvature at the bottom of the guides.



Step 9. While holding the trailing edge of the stack up off the belts, loosen the back wedge locking knob and slide the back wedge assembly forward until it is under the edge of the envelope stack.



Position the back wedge assembly so that the trailing edge of the envelope stack is resting approximately in the bend of the ramp. Then tighten the locking knob.

NOTE: The position of the back wedge assembly is important and affects the envelope feeding and separation. Some experimentation is recommended for your envelopes to achieve the best results. Step 10. Adjust the non-operator alignment section wall so that it lines up with the paper guide fins. You will use the right adjustment knob located on the front operator side to move the alignment section.



Paper Guide Fins

Step 11. Loosen the operator side thumbscrew and move the operator side guide. Leave a slight gap between the operator guide and the media to prevent stalling in the alignment section.

Align the guides with a



Operator Side Guide Thumb Screw Paper Guide Fins

Step 12. Use the left adjustment knob located on the front of the feeder to move the operator side green belt. Position the operator side green belt so that it is fully under the media. The belt should sit about 1 inch from the edge of the media.

Note: Positioning the green belt fully under the media may not be possible with smaller envelopes.



Step 13 (Optional, generally not used). Install the optional second alignment section above the operator-side green belt. The second alignment section helps in holding down warped or curled media.

Step 14. Use the Jog Button located on the back of the feeder to feed an envelope into the green alignment section. Ensure that the media does not catch on the paper guide fins. You may have to reposition.



Step 15. While feeding, ensure that the media aligns flat against the non-operator side alignment guide. If the media is not flat against the guide, you will have to repeat step 10. The media should also have some space from the operator side guide. If there is not space between the media and the operator side guide, repeat step 11.



Operator Side Guide: Ensure the media has some space from the guide to prevent stalling while feeding



TESTING THE FEEDER

In the DFE go to the settings icon located on the middle right of the screen. Under the FI-1000 tab select "Start Belt" to run the main blue belt. With the main blue belt running, you can now test the feeder.

With a small stack of envelopes in the feed hopper, turn the potentiometer to off (all the way counterclockwise). In the DFE under FI-1000 tab select "Start Feeder" to provide power to turn on the feeder. Adjust the external speed potentiometer to a moderate speed to test feeding.

Alternatively, press the JOG button to run the feeder.

While the feeder is running, observe the envelopes as they travel from the feed hopper across the acceleration table. A consistent gap between envelopes of approximately χ'' to 1" is desirable. If there is no gap between the envelopes as they advance on the acceleration table, you can reduce the feeder speed, Additionally, you can try lowering the separator a bit or moving the back wedge assembly in under the envelopes a bit more.



The main blue belt runs a bit faster than the feed section. To ensure all printing is consistent, position the black media wheels evenly apart. They can be moved by loosening the Philips set screw.

There are also metal fingers near the blue wheels which help hold down media under the printhead. Ensure that the metal fingers sit on the blue belt and are evenly spaced 1 inch to $1\frac{1}{2}$ inch from the edges of the media.

If the envelopes are feeding consistently, you are now ready to begin production.

2.4 Job Cost Calculator

Cost Calculator Application:

Included on the RIP computer is a Cost Calculator Application. The application can be found on the Desktop Background.



After launching the application, you will see a Start screen. There is a Start button and an IP Address text field.



The IP Address must match the IP address of the RIP computer. The IP address of the RIP can be found in the Network and Internet Settings -> Ethernet. In this case, our network is Printware LAN, and the IP is 192.168.254.171

~	Settings		-		×
	make this connection a metered	nd want more control over data usage. network. Some apps might work when you're connected to this network.			
	Set as metered connection				
- 1	Off				
	f you set a data limit. Windows for you to help you stay under y	will set the metered connection setting our limit.			
	Set a data limit to help control o	lata usage on this network			
1	P settings				
	P assignment: Edit	Automatic (DHCP)			
1	Properties				
	link speed (Receive/Transmit):	1009/1000 (Mbps)			
	ink-local IPv6 address:	fe80::d687:7d74:da1b:4475%7			
	Pv4 address:	192.168.254.171			
	Pv4 DNS servers:	192.168.254.4 192.168.254.3 1.1.1.1			
	Primary DNS suffix:	printware.lan			
	Manufacturer:	Intel			
	Description:	Intel(R) Ethernet Connection (17) 1219- LM			
	Driver version:	12.19.1.37			
	Physical address (MAC):	CC-96-E5-18-58-2C			
	Сору				
				7	IPae

Once you ensure the IP address matches, you can hit the "Start" button. If you notice that the information displayed regarding recently printed jobs is incorrect, double check the IP address.

Job	Image	C (mL/page)	M (mL/page)	Y (mL/page)	K (mL/page)	Cost/Page	Cost/1,000	
Kida stickers 9x12.pdf	ab.e	0.04350	0.04321	0.06067	0.03417	\$ 0.1561	\$156.09	
9x12 oversized envelope pdf		0.00177	0.00109	0.00034	0.00187	\$ 0.0073	\$ 7.28 \$ 7.31 \$ 7.31 \$ 97.28	
9x12 oversized envelope.pdf		0.00178	0.00110	0.00034	0.00189	\$ 0.0073		
9x12 oversized envelope pdf		0.00178	0.00110	0.00034	0.00189	\$ 0.0073		
Kida stickers 9x12.pdf	-	0.02189	0.02160	0.04849	0.01983	\$ 0.0973		
Heller #10 Envelope.pdf		0.00145	0.00076	0.00032	0.00078	\$ 0.0058	\$ 5.79	
Heller #10 Envelope.pdf	1	0.00145	0.00076	0.00032	0.00078	\$ 0.0058	\$ 5.79	
Heller #10 Envelope pdf	-	0.00136	0.00068	0.00024	0.00068	\$ 0.0055	\$ 5.50	
Cyan brit C S 199 S Printhead 378	9	2	Estimated Printhead Life Remain	ng Ift Height (n)	Statu System (S Operational		
S Total Mach	hine Page Count	łł	Max Lift					

After hitting "Start". You will see a screen similar to the one found in the DFE settings. The major additions are Printhead Page Count, Total Machine Page Count, and Estimated Printhead Life Remaining.

Printhead Page count – Total Impressions printed on the current printhead.

Total Machine Page Count – Total Impressions printed on the machine since installation.

Estimated Printhead Life Remaining – A bar that will empty out as the head nears the rated end of life. Full Blue bar = Full Printhead Life. Please bear in mind that the bar is merely an estimate based off the impressions that the manufacturer rates the print engine for. You may see life extend past the estimated life.
2.5 Setting the Lift Height

Changing the lift height will raise or lower the physical height of the printhead. You may need to change the lift height if you are printing on thicker stock or if you need to obtain access under the printhead for things such as clearing a jam or maintenance. If you dramatically change the print height, such as printing on enveloped then boxes, you may need to re-teach the infeed (TOF) sensor. This procedure is described in this manual under section 3.6.

Be aware that print quality may suffer if the lift height is set too high while printing. Typically, a proper lift height for envelopes and sheet stock is when the printhead head touches the table.

Here are some examples of print quality at different lift heights. This was printed on a typical #10 Envelope.



To set the lift height,

1. Locate the "Cost Calculator" standalone application, open it up, and hit "Start"



2. The controls of the lifter are as follows:



- **a.** Instantly sets the height to its maximum value of 2 inches.
- **b.** Instantly sets the height to its minimum value of 0 inches, which allows the head to sit on the tabletop.
- **c.** The "Fine" height adjustment, changes height in increments of 0.01 inches.
- **d.** The "Coarse" height adjustment, changes height in increments of 0.1 inches.
- e. The save button, moves printhead to the set height.
- f. The current lift height

2.6 Sensor Adjustment and TOF Adjustment

Changing the type of media or changing the printhead lift height may require you to "teach" the infeed (TOF) senor. If you change the stock or the printhead lift height and the system no longer prints, it's a good bet that this procedure needs to be completed.

You can find the sensor control panel located on the non-operator side of the printhead.



Typically, if there is media underneath the sensor eye the orange LED (1 on diagram below) on the sensor body will be illuminated. This is a good way to verify if the sensor is triggering properly.



To "Teach" the sensor:

1. Make sure that the sensor is only detecting the belt (no stock under sensor).

- 2. Momentarily press the Teach Button (4 on the diagram above).
- 3. The display will now show "2-nd".
- 4. Place one sheet of stock on the belt under the sensor.
- 5. Press the Teach button again.
- 6. If the calibration is successful, the display will show "good".

Note: The sensor is located beneath the entry side of the printhead. It sits in a sliding bracket. Shown is the TOF sensor Rev B - Printhead is raised for a better view.



Note: On some models the TOF sensor is mounted externally as shown below. Sensor Rev A



If there is an error output during the teach-in: An error message is output if the input is faulty during the configuration. See the following table:

E	r	r	1
E	r	r	2
E	r	r	3

Indicates that the light intensity of the teach-in value is too low.

Indicates that the light intensity (saturation) of the teach-in value is too high.

Indicates that the difference in light intensity between teach-in point 1 and teach-in point 2 is too low.

Top of Form in the DFE:

Note: When setting the Top of Form offset in the DFE, the default value is for TOF Sensor Rev A and TOF Sensor Rev B. Sensor Rev A is an externally mounted sensor while sensor Rev B is mounted beneath the printhead itself.

FI-1000 HP Advanced	Cost Calculator Get	Support		Ø
Apply Pen to Paper Spacing: Top of Form Offset: Page Gap: COM Port: Static Page Mode	5120 32000 19500 4	Default	Start Belt Start Feeder Enable TO Current Belt Speed: 0 Remaining Service Station Life: 96.4% FW rev: CLSTPWPP1N001.2317A.00 System Serial Number:	DFs
Lost printer message: ready version 2.0	Sens	sor R	ev A	
FI-1000 HP Advanced	Cost Calculator Get 1	Support	Start Belt Start Feeder Enable TO	Ø DFs
Pen to Paper Spacing: Top of Form Offset: Page Gap: COM Port: Static Page Mode	5120 21600 19500 4	Default	Current Belt Speed: 0 Remaining Service Station Life: 96.4% FW rev: CLSTPWPP1N001.2317A.00 System Serial Number:	
Lost printer message: ready version 2.0	Sens	sor R	ev B	

2.7 Replacing Service Station Sled

The Service Station Sled has a roll-to-roll wiping material that cleans the printhead surface. This will remove foreign material such as paper fibers, dust, and excess ink. Regular maintenance (cleaning) of the print nozzles will ensure optimal print quality. Eventually the roll of wiping material will be used up and the entire maintenance tray will need to be replaced.

On your interface you will see an estimated % of the remaining service station life left. Once this gets to 0% it will need to be replaced. Please note that this value is only an estimate. It may be required to replace the sled before the value gets to 0%.

Remaining Service Station Life: 100%

When the service station cloth is depleted, you will receive an "Attention needed Error" and the sled must be replaced. The printer will not print when in error because the printhead cannot be cleaned.

FI-1000					
Status:	Offline				
Printer:	Error			-	
System:	Ready	17%	44%	48%	95%
Message:	attention needed				
	0				

Note: Please always keep an extra service station on hand to reduce downtime and ensure smooth printing.

<u>Warning</u>: If the service station runs out and you do not have a replacement on hand, leave the old station in the printer until you are ready to swap stations. Doing so will ensure that the printhead remains capped and hydrated.

Never leave the printhead uncapped (no service station under it) for more than <u>three minutes</u> or serious damage may occur.

To replace your Service Station:

1. Pull the feeder away from the printhead.



2. Loosen the two thumbscrews securing the maintenance tray door and open the door <u>fully</u>.



3. In the HP advanced tab on the main display click on the **"Eject Service Sled"** button. This will drive the service sled out of the printhead.

Check Service Sled	Mid-job S	ervice Download	d Firmware	
Eject Service Sled	Pen Recov	very Level 0 Stall Rec	overy	
Install Service Sled				
Instan Service Sled				
Calibrate Service Sle				
Galibrace Service Sie	<u> </u>			
Calibrate service site				
urrent operation: None				
urrent operation: None	ervice sled operation: Check	Service Sled		
urrent operation: None		Service Sled Lead Spitbar Lines:	θ	
urrent operation: None ist Message: Executing se	ervice sled operation: Check		0	
urrent operation: None ist Message: Executing se id job Service Time:	Prvice sled operation: Check [Pre-Job] [Page count based]	Lead Spithar Lines:		

4. Pull the Service Station out of the printhead housing. It may be tight on the non-operator side, but it will come out.



5. Slide the new maintenance tray into the opening and slide it in until it stops.

6. In the HP advanced tab on the main display click on the **"Install Service Sled"** button. This will pull the service station sled into the system. If the sled does not start pulling it in, slightly push the sled in to engage the gears. The sled should then be pulled in.

Check Service Sled	Mid-job Se	rvice Downloa	d Firmware	
Eject Service Sied	Pen Recove	rry Level 0 Stall Rec	overy	
	_			
Install Service Sled				
Calibrate Service Sled				
Calibrate Service Sled				
Calibrate Service Sled	ce sled operation: Check :	Service Sled		
rrent operation: None at Message: Executing servi				
rrent operation: None it Message: Executing servi I-job Service Time:	[Pre Job v]	Lead Spitbar Lines:	0 0	
rrent operation: None t Message: Executing servi			0 0 0	

- 7. As soon as the sled is pulled in, close the door, and retighten the thumbscrews.
- 8. In the HP Advanced window, click on the "Calibrate Service Sled" button. This will set the % remaining to 100%. Note: To see the service station life update in the DFE, fully reboot the navigator server.

	1110 100 001	vice Download	Firmware	
Eject Service Sied	Pen Recove	ry Level 0 Stall Reco	overy	
Install Service Sled				
Calibrate Service Sled	\mathbf{D}			
Calibrate Service Sled	\triangleright			
	>			
Calibrate Service Sled ment operation: None st Message: Executing service	e sled operation: Check S	iervice Sled		
rrent operation: None st Message: Executing service	e sled operation: Check S	ervice Sled Lead Spitbor Lines:	0	
rrent operation: None st Message: Executing service			0	
rrent operation: None st Message: Executing service d-job Service Time:	Pre Job -	Lead Spitbar Lines:		

1

2.8 Replacing Ink Tanks

1. Open the ink door. The ink door is a spring loaded magnetic latching door. Pull to open.



2. After a few seconds, "Pen Change" should appear in the DFE. It is now safe to remove the ink.





3. Remove the used ink cartridge by pressing it in to unlatch it. Then pull out the cartridge.

- 4. Install the new ink cartridge by sliding the cartridge into the slot. Push in far enough so that the cartridge latches in.
- 5. Close the ink door.

Note: You should notice the "Pen Change" error clear after a few seconds. If the error does not clear, shift the ink door slightly up or down. Doing so will ensure that the door sensor is tripped.

Section 3 – Operator Maintenance

3.1 Cleaning the Print Platen and Waste Ink Tray

As you print with your printer, a small amount of ink is ejected because of overspray. To prevent ink from getting onto the blue belt, the printer features a waste container/print platen. The print platen itself has a sealed trough which stores the ink build up and must be cleaned periodically. Although it is difficult to say how often because there are many printing variables at work, it is recommended that it be cleaned weekly. Keep in mind that if you are printing large quantities or bleeds, more frequent cleaning may be necessary.

1. Begin by raising the head to its maximum height.



2. Locate and remove the thumbscrew at the operator-side of the print platen.



3. Lift out the platen.



4. Rinse off the platen in a sink, then dry off.



5. Reinstall the platen and reinsert the platen thumbscrew.

3.2 Printhead Replacement

The HP print engine in the printhead assembly is very durable and typically will last a long time. However, at some point the nozzles or other components in the HP print engine will wear out from use and thus need to be replaced. To make this a quick and painless replacement for the end user the entire printhead is replaced. Typically, the user will replace the entire printhead assembly and send the assembly back to Printware for repair and refurbishment.

Note: The printhead is industrially constructed as such it weighs 70 pounds. So, it will take two people capable of lifting the printhead to perform this task.

To replace the printhead:

1. Lower the lift height to the lowest position and remove the ink cartridges for use in the new printhead. (see section Replacing the Ink Tanks)

- 2. Raise the lift height to 2 inches. (see section Setting Lift Height)
- 3. Power off the printhead assembly using the main power switch on the back of the printhead.



4. Disconnect all cables on the back of the printhead. Pay attention to where they are connected so that re-connection will be easier.



- a. The power cable
- b. The encoder cable
- c. The feeder cable



- d. NOT USED ON THE 1175C
- e. USB (to RIP)
- f. NOT USED ON THE 1175C
- g. Ethernet (to RIP)
- h. RIP USB (to RIP)
- i. Lift Controller (to RIP)
- 5. Remove the four shoulder screws that secure the printhead to the frame. Save the screws for use with the new printhead. Remove by pushing them up from the bottom.



6. Being careful not to damage the infeed (TOF) sensor, lift the old printhead off of the conveyor mounting frame and carefully set on a table or cart. The printhead weighs 70 lb, so it will take *two people* capable of lifting the printhead to safely perform this task.



- 7. Unpack the new printhead.
- 8. With two people, lift the new printhead onto the conveyor mounting frame. Pay careful attention not to damage the infeed (TOF) sensor.



9. Install the four shoulder screws removed from when the old printhead was removed. You may have to slightly re-position the printhead to make the holes line up.



- 10. Connect all the cables on the back of the printhead.
- 11. Remove the thumbscrew from the service station door and open the door. Remove the two orange shipping braces. Close the service station door and secure with the thumbscrew.



- 12. Install both orange shipping braces in the old printhead and secure the door with the thumbscrew.
- 13. Power up the new printhead.
- 14. Package the old printhead for shipment back to Printware.

