

SwiftPro K30 and K60 Series Printers

Printer Driver Reference Apple macOS

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Overview

The SwiftPro printer driver is compatible with macOS High Sierra (10.13) or newer and works with the SwiftPro K30, K30D and K60 printers. The driver installation is performed by double-clicking the SwiftPro installation package (pkg).



Driver Installation

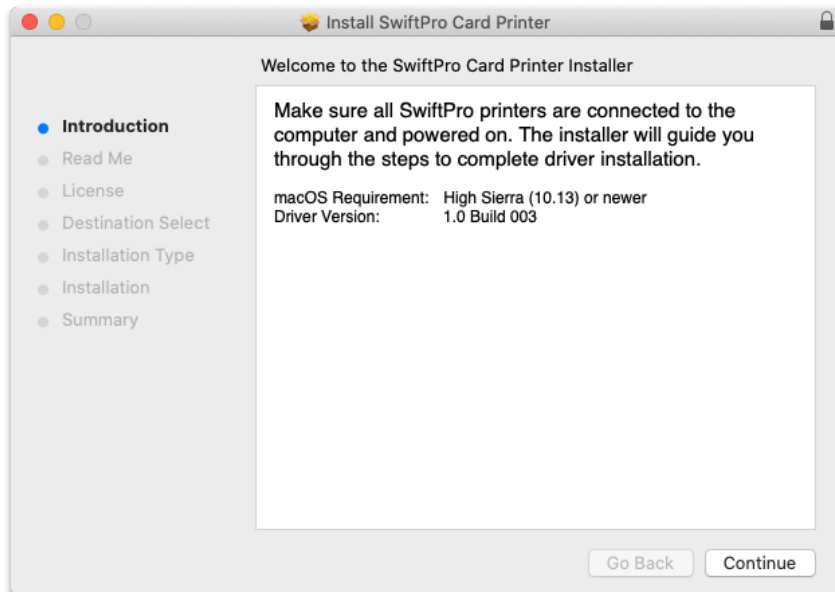
The printer driver will create printer connections for all detected printers. Make sure the printers are turned on prior to installing the driver and are in the Ready state. Review each screen during installation and click Continue to advance.

Note

All printers of the same model number must be set to unique IDs through the printer's LCD panel under the Settings menu. The driver will only find one printer per model number/printer ID combination.

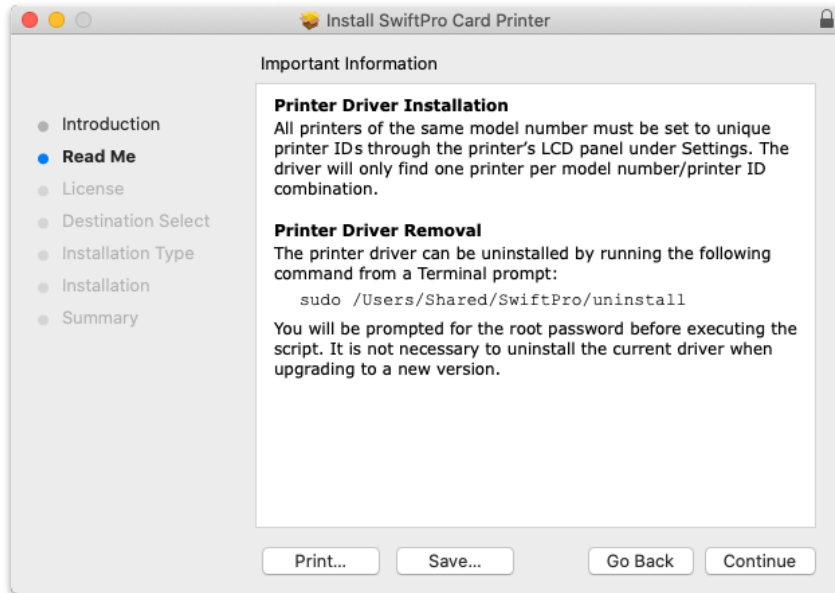
Introduction

The printer driver includes additional settings specific to the SwiftPro card printers. The settings can be selected from any application's Print dialog.



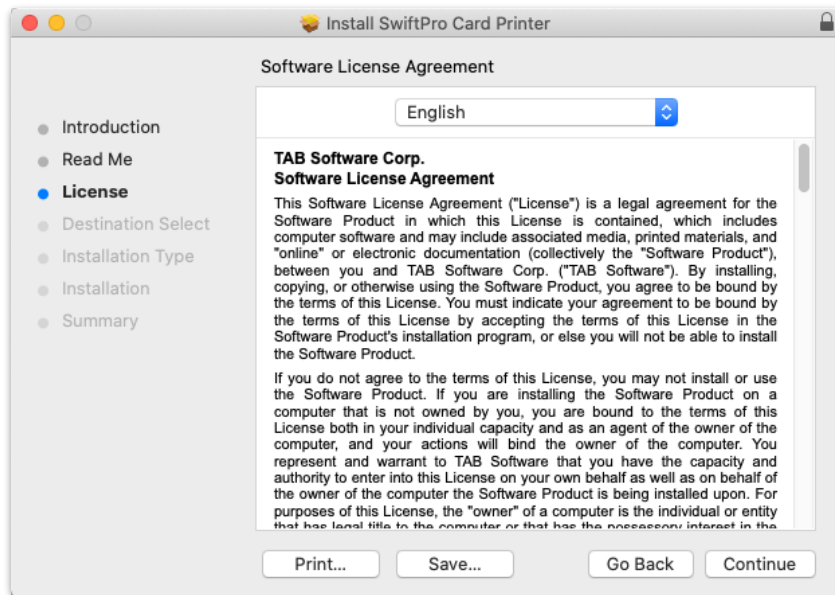
Read Me

The Read Me area contains installation notes and instructions to uninstall the driver.



License

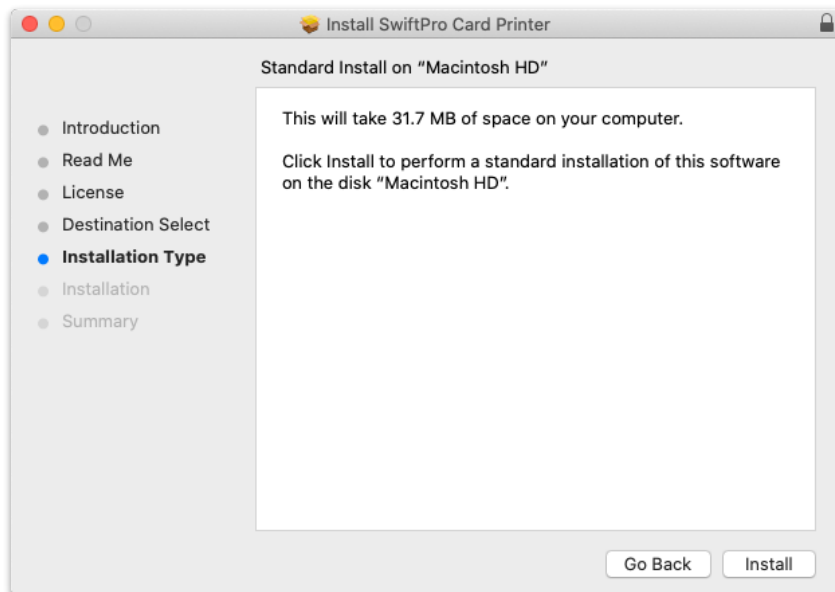
Read the Software License Agreement and click Continue to agree the terms of the agreement.





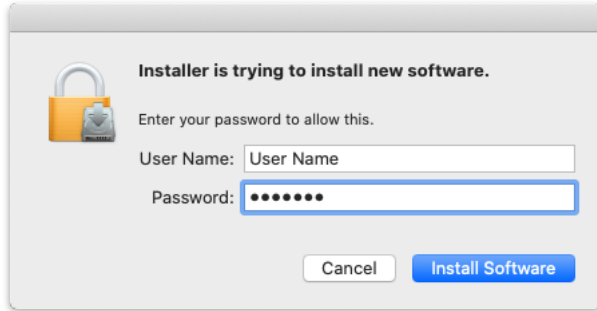
Installation Type

Installation Type will show the required hard drive space to install the driver. The default installation location is the boot hard drive. Click Install to begin installation.



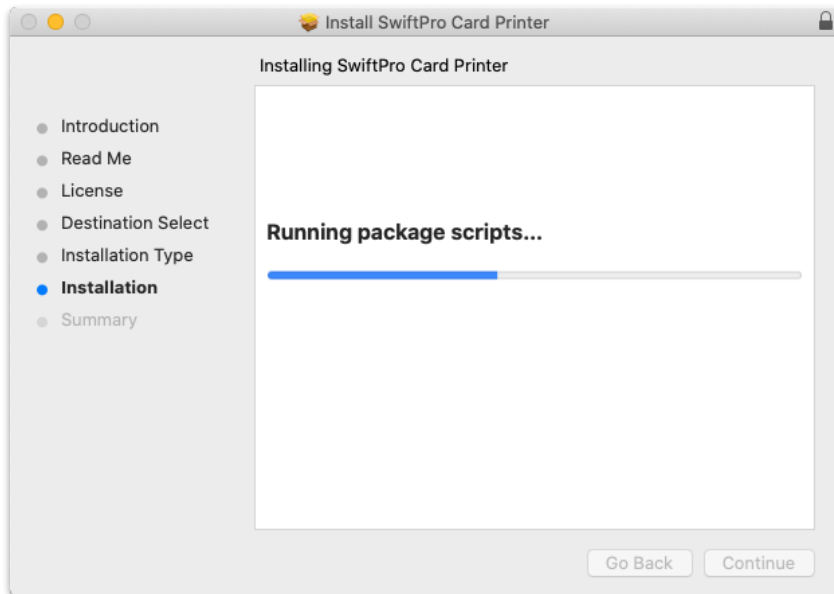
Root Log In

Setup will prompt for the root password which is required to install the print driver on macOS.



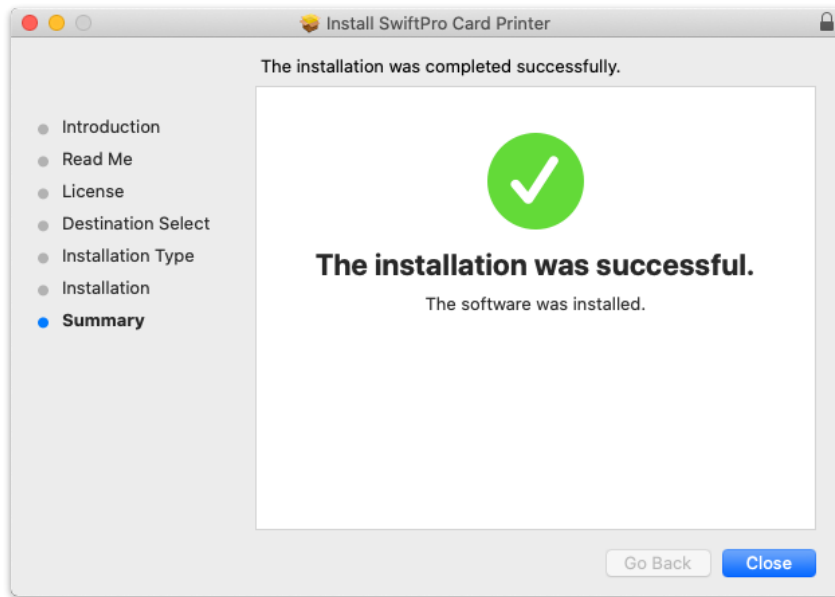
Installation

The print driver will be installed, and printer connections created for all connected devices.



Summary

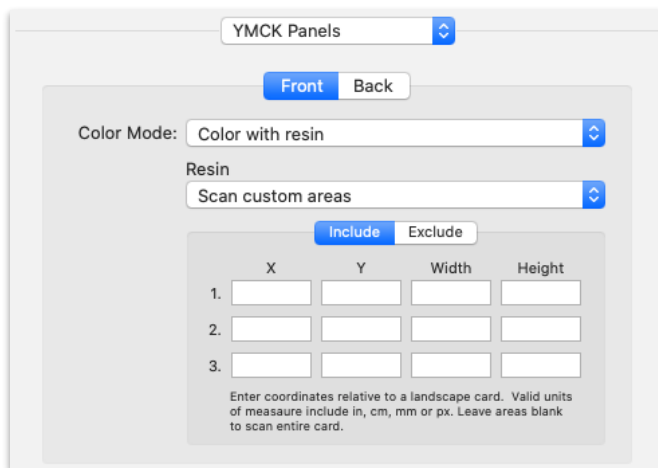
The Summary screen will show the status of the installation. The printer connections can be confirmed by reviewing the printers in Preferences / Printers & Scanners.



Print Settings

The printer driver includes additional settings specific to the SwiftPro card printers. The settings can be selected from any application's Print dialog.

YMCK Panels



Color Mode

The Color Mode option controls the use of the printer's YMCK panels.

Black

The page is converted to black and white and printed via the K panel.

Grayscale

The page is converted to grayscale and printed via the YMC panels.

Color

The page is printed unaltered via the YMC panels.

Color with resin

The page is printed unaltered via the YMC panels with optional black data printed via the K panel.

Resin

The Resin option controls how the driver locates resin data.

Software prints separate resin page

This option provides software the most control over which data prints via the K panel. When selected, the driver will use the trailing page as the resin layer. The driver will automatically halftone the output to black and white, but it is highly recommended for software to print the resin page in black and white.

To print a single sided card including resin, the printing software should print two pages. Page 1 prints using the YMC panels and page 2 prints using the K panel. Printing a double-sided card works the same way by printing the correct number of pages for each side's Resin settings. If front and back settings are set to 'Software prints separate resin page', the software should print four pages.

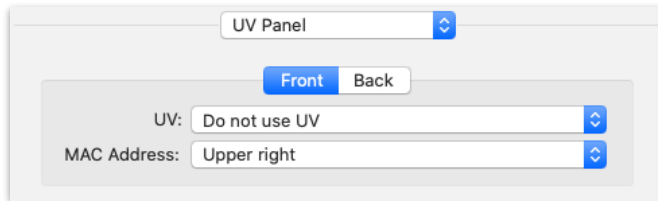
Scan areas defined in preset 1...10

Scan area presets can be set using the SwiftPro Utility and selected via one of the ten presets. The printer driver will scan the color data within the defined areas for black pixels and print them via the K panel.

Scan custom areas

Custom scan areas can be defined within the printer settings. The printer driver will scan the color data within the defined areas for black pixels and print them via the K panel.

UV Panel



UV

The UV option controls the use of the UV ribbon panel.

Do not use UV

Do not use the UV panel.

Software prints separate UV page

This option instructs the driver to use the next page as the UV layer. The driver will automatically grayscale the page and print using the UV panel. This option works the same way as the corresponding resin option. If the Resin data is also being printed via the 'Software print a separate resin page' option, the printing software should send the UV page after the resin page. The SwiftPro printer supports 255 levels of UV grayscale data. Black (0) is no UV applied. White (255) is full UV intensity during application. The page background should be set to Black (0) and then drawn with the desired shades of gray if lower UV intensity is desired or full White (255).

Draw UV image defined in preset 1...5

Up to 5 UV Image presets can be defined in the SwiftPro Utility and selected from the UV drop down list.

MAC Address

The printer will always print the MAC Address on the UV layer. The MAC Address can be positioned in the Upper Right or Lower Left corner of the card.

Upper right

Lower left

Peel-Off Panel

Peel-Off

The Peel-Off option controls the application of the PO panel which removes ribbon from print areas on the card.

Do not use peel-off

The peel-off panel will not be used.

Software prints separate peel-off page

This option instructs the driver to use the next page as the peel-off layer. The driver will automatically grayscale the page and print using the peel-off panel. This option works the same way as the corresponding resin and UV options. If the Resin data or UV data area also being printed via the 'Software print a separate resin page' option, the printing software should send the Peel-Off page after these pages. The SwiftPro printer supports 255 levels of Peel-Off grayscale data. Black (0) is no peel-off applied. White (255) is full peel-off intensity during application. The page background should be set to Black (0) and then drawn with the desired shades of gray if lower peel-off intensity is desired or full White (255).

Peel-off areas defined in preset 1...10

Peel-off area presets can be set using the SwiftPro Utility and selected via one of the ten preset options. The printer driver will create a peel-off layer defined by the peel-off areas and print them via the peel-off panel.

Peel-off custom areas

Custom peel-off areas can be defined with the printer settings. The printer driver will create a peel-off layer defined by the peel-off areas and print them via the peel-off panel.

Thermal Laminate

Laminate

The Laminate option controls the application of thermal laminate via the printer's optional Laminator.

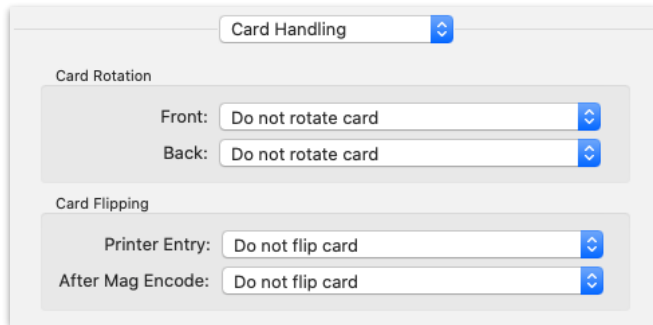
Do not laminate

Thermal laminate is not applied.

Laminate card

The card will be laminated according to the film installed in the laminator.

Card Handling



Card Rotation

The Card Rotation option controls the orientation of the print data with respect to the physical card.

Do not rotate card

The card data is left as-is and is not rotated.

Rotate card side 180°

The card data is rotated 180° before printing.

Card Flipping

The Card Flipping option controls the entry of the card into the printer and after mag encoding.

Printer Entry

Do not flip card

Card enters printer as oriented in the hopper.

Flip card on printer entry

Card is flipped during initial transfer to retransfer area.

After Mag Encode

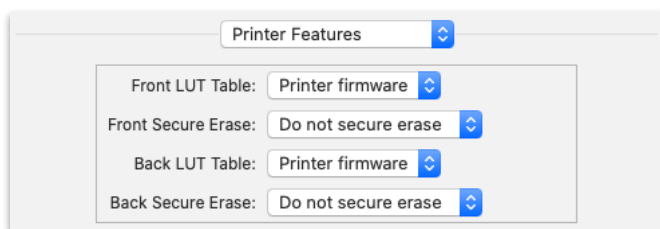
Do not flip card

Card is not flipped after mag encoding.

Flip card after mag encode

Card is flipped after mag encoding.

Printer Features



LUT Table

LUT tables are used to alter color data within the printer's firmware. Review the LUT Table section in the SwiftPro Utility for how to create the tables.

Printer firmware

A standard linear LUT table will be used.

Table 1...3

Up to three LUT tables can be defined within the SwiftPro Utility and selected within the driver settings.

Secure Erase

The printer's secure erase feature will scramble the resin panel after printing so it cannot be viewed.

Do not secure erase

Secure erase K panel

PPD Options

Following is the complete list of custom printer options which can be set using the Print Core function, `PMPrintSettingsSetValue`.

Option	Value	Visual Description
frontRibbon	Monochrome	Black
	Grayscale	Grayscale
	Color	Color
	ColorK	Color with resin
frontResin	Page	Software prints separate resin page
	Preset1...10	Scan areas defined in presets within SwiftPro Utility
	Scan	Scan color output for resin (optional include/exclude regions defined by frontResinInclude1...5 and frontResinExclude1...5)
backRibbon	Monochrome	Black
	Grayscale	Grayscale
	Color	Color
	ColorK	Color with resin
backResin	Page	Software prints separate resin page
	Preset1...10	Scan areas defined in presets within SwiftPro Utility
	CustomAreas	Scan color output for resin (optional include/exclude regions defined by backResinInclude1...5 and backResinExclude1...5)
frontResinInclude1...5	<i>See Dimensional Note</i>	
frontResinExclude1...5		
backResinInclude1...5		
backResinExclude1...5		
frontUV	None	Do not use UV
	Page	Software prints separate UV page
	Preset1...5	Draw UV image defined in preset 1...5 within SwiftPro Utility
frontUVMAC	UpperRight	Print printer's MAC Address on upper right corner of card
	LowerLeft	Print printer's MAC Address on lower left corner of card
backUV	None	Do not use UV
	Page	Software prints separate UV page
	Preset1...5	Draw UV image defined in preset 1...5 within SwiftPro Utility
backUVMAC	UpperRight	Print printer's MAC Address on upper right corner of card
	LowerLeft	Print printer's MAC Address on lower left corner of card

frontPO	None	Do not use peel-off
	Page	Software prints separate peel-off page
	Preset1...5	Peel-off areas defined in preset 1...5 within SwiftPro Utility
	CustomAreas	Peel-off custom areas defined in frontPeelOff1...5 and frontNonPeelOff1...5
backPO	None	Do not use peel-off
	Page	Software prints separate peel-off page
	Preset1...5	Peel-off areas defined in preset 1...5 within SwiftPro Utility
	CustomAreas	Peel-off custom areas defined in backPeelOff1...5 and backNonPeelOff1...5
frontPeelOff1...5	<i>See Dimensional Note</i>	
frontNonPeelOff1...5		
backPeelOff1...5		
backNonPeelOff1...5		
cardLaminate	No	Do not laminate
	Yes	Laminate card
frontRotation	No	Do not rotate card
	Yes	Rotate card 180°
backRotation	No	Do not rotate card
	Yes	Rotate card 180°
entryCardFlip	No	Do not flip card
	Yes	Flip card on printer entry
magEncodeCardFlip	No	Do not flip card
	Yes	Flip card after mag encode
icEncodeCardFlip	No	Do not flip card
	Yes	Flip card after ic encode
frontLUTTable	Firmware	Printer firmware
	LUT1...3	Table 1...3 defined within SwiftPro Utility
backLUTTable	Firmware	Printer firmware
	LUT1...3	Table 1...3 defined within SwiftPro Utility
frontSecureErase	No	Do not secure erase
	Yes	Secure erase K panel
backSecureErase	No	Do not secure erase
	Yes	Secure erase K panel
magEncodeData1...3	<i>Encode track data</i>	Text to be encoded on the specified track. Must comply with the track's character set.
magEncodeFormat1	None	Do not encode the track
	ISO6-76	Encode track using ISO 6 unit code with 76 maximum characters
	ISO6-79	Encode track using ISO 6 unit code with 79 maximum characters
	ISO7-69	Encode track using ISO 7 unit code with 69 maximum characters
magEncodeFormat2	None	Do not encode the track
	ISO4-37	Encode track using ISO 4 unit code with 37 maximum characters
magEncodeFormat3	None	Do not encode the track
	ISO4-104	Encode track using ISO 4-unit code with 104 maximum characters
	ISO6-79	Encode track using ISO 6-unit code with 79 maximum characters
	ISO7-69	Encode track using ISO 7-unit code with 69 maximum characters
printerPlugin	Default	Use the selection from the Active Printer Plugin in the Printer Utility.
	<i>Plugin filename</i>	Filename of the plugin in the Plugins folder (path not included)

Dimensional Note

Field requires a rectangular dimension in the format, “X uom Y uom Width uom Height uom”. X, Y, Width and Height is any decimal value. UOM is px (pixel), mm, cm, in or “. Width and height can be set to 0px and the driver will default to the edge of the card.

Example: 1.25in .5in 1” 0.25in

Job Page Formatting

Most of the print options set through the Printing Dialog interface and through the Print Core function, `PMSettingsSetValue` are global to the print job and cannot be changed between pages. It is recommended to not include more than one printed card per print job.

To provide the greatest control over the content of the resin (k-panel), ultraviolet (uv-panel) and peel-off (po-panel) layers, the driver supports printing these layers to individual pages. This is also the recommended method developers should use when writing software. When the driver’s resin setting is set to ‘Software prints separate resin page’, the uv setting is set to ‘Software prints separate uv page’, or the peel-off setting is set to ‘Software prints separate peel-off page’ the driver will merge multiple pages into a single formatted print. The optional pages should print resin first, followed by uv and lastly peel-off.

The following page formatting will print front-side YMCK and backside YMC when front side resin option is set to ‘Software prints separate resin page’.

Page	Contents
1	Front-side YMC
2	Front-side K
3	Back-side YMC

Magnetic Encoding

The printer driver supports magnetic encoding via Apple’s Print Core framework. If you are not familiar with the framework reference Apple’s developer site at developer.apple.com and search for ‘Application Services Reference’.

The printer driver will look for specific print ticket options to encode a card’s mag stripe. One set of options are used to pass the track data and another set for the track format.

The custom printer options which can be set using the Print Core function, `PMPrintSettingsSetValue`, include:

Option	Description
<code>magEncodeData1</code>	Data to encode on track 1
<code>magEncodeData2</code>	Data to encode on track 2
<code>magEncodeData3</code>	Data to encode on track 3
<code>magEncodeFormat1</code>	None, ISO6-76, ISO6-79, or ISO7-69
<code>magEncodeFormat2</code>	None or ISO4-37
<code>magEncodeFormat3</code>	None, ISO4-104, ISO6-79, or ISO7-69

The following sample code will set the print options to encode data on track 1:

```
PMPrintSettings printSettings; // printSettings must be initialized
                                // through one of the Print Core API's.
                                // This sample assumes printSettings is
                                // already initialized.

CFStringRef dataKey1 = CFSTR("magEncodeData1");
CFStringRef formatKey1 = CFSTR("magEncodeFormat1");
CFStringRef dataValue1 = CFSTR("1234567890");
```

```
CFStringRef formatValue1 = CFSTR("ISO6-79");
```

```
PMPrintSettingsSetValue ( printSettings, dataKey1, dataValue1 );
```

```
PMPrintSettingsSetValue ( printSettings, formatKey1, formatValue1 );
```

Character Sets

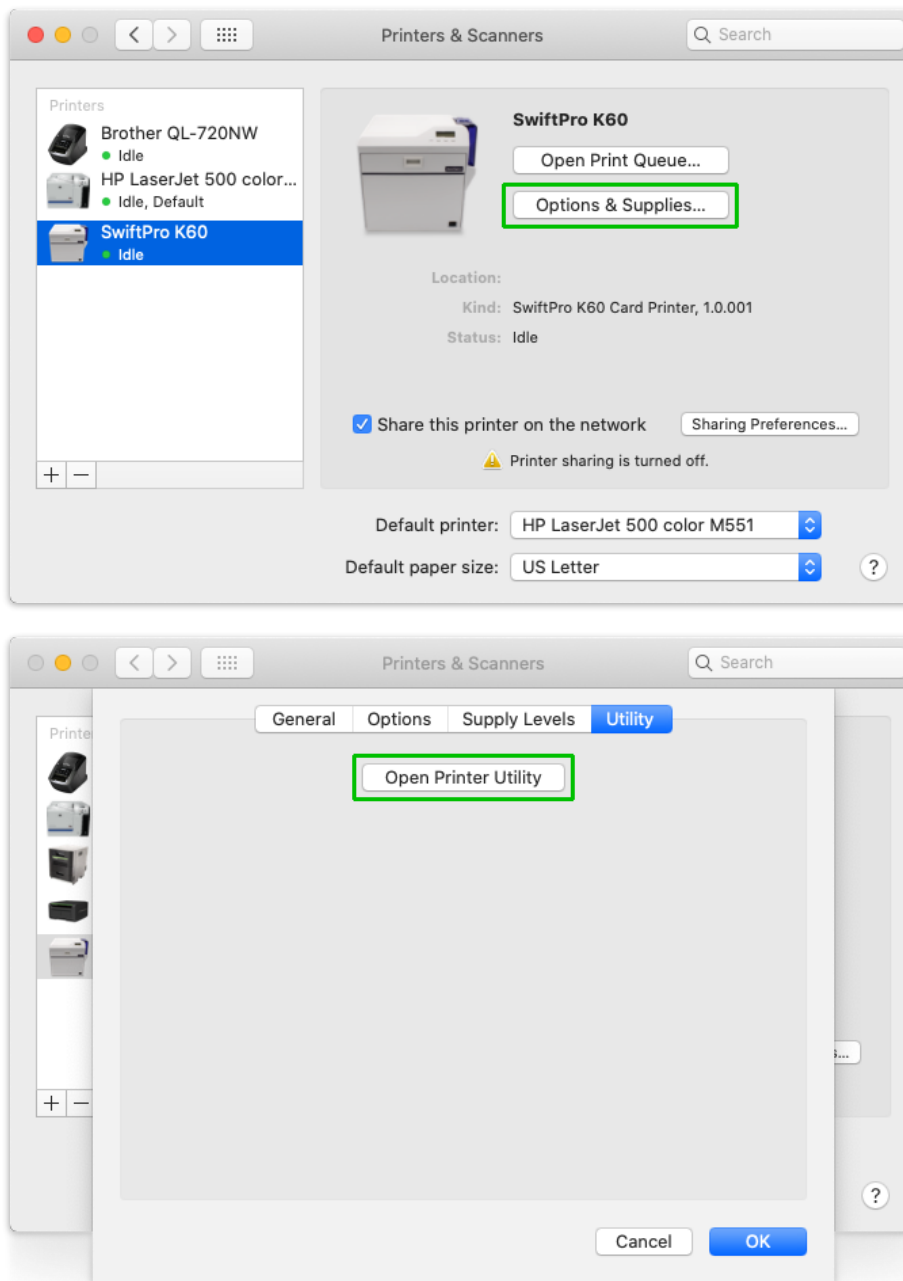
ISO 4 bit		ISO 6 bit				ISO 7 bit					
	0		0	@	P		0	@	P	`	p
	1	!	1	A	Q	!	1	A	Q	a	q
	2	"	2	B	R	"	2	B	R	b	r
	3	#	3	C	S	#	3	C	S	c	s
	4	\$	4	D	T	\$	4	D	T	d	t
	5	%	5	E	U	%	5	E	U	e	u
	6	&	6	F	V	&	6	F	V	f	v
	7	\	7	G	W	\	7	G	W	g	w
	8	(	8	H	X	(	8	H	X	h	x
	9	)	9	I	Y	)	9	I	Y	i	y
	:	*	:	J	Z	*	:	J	Z	j	z
	;	+	;	K	[	+	;	K	[	k	{
	<	,	<	L	\	,	<	L	\	l	|
	=	-	=	M	]	-	=	M	]	m	}
	>	.	>	N	^	.	>	N	^	n	~
	?	/	?	O	_	/	?	O	_	o	DEL

SwiftPro Utility

The SwiftPro Utility is used to display printer consumable supply levels and view and adjust printer settings. The utility can be accessed through the Printers & Scanners app in macOS.

1. Highlight the SwiftPro printer in the Printers list
2. Click Options & Supplies
3. Select the Utility tab
4. Click Open Printer Utility

Printers & Scanners



SwiftPro Utility

Printer List

The utility will detect available SwiftPro printers and display them in the Printer drop down list.

App Security

The utility will display the printer settings but will require the user to Log In to save changes to the printer. The user will be prompted for a new password the first time the utility is run.

Save To Printer

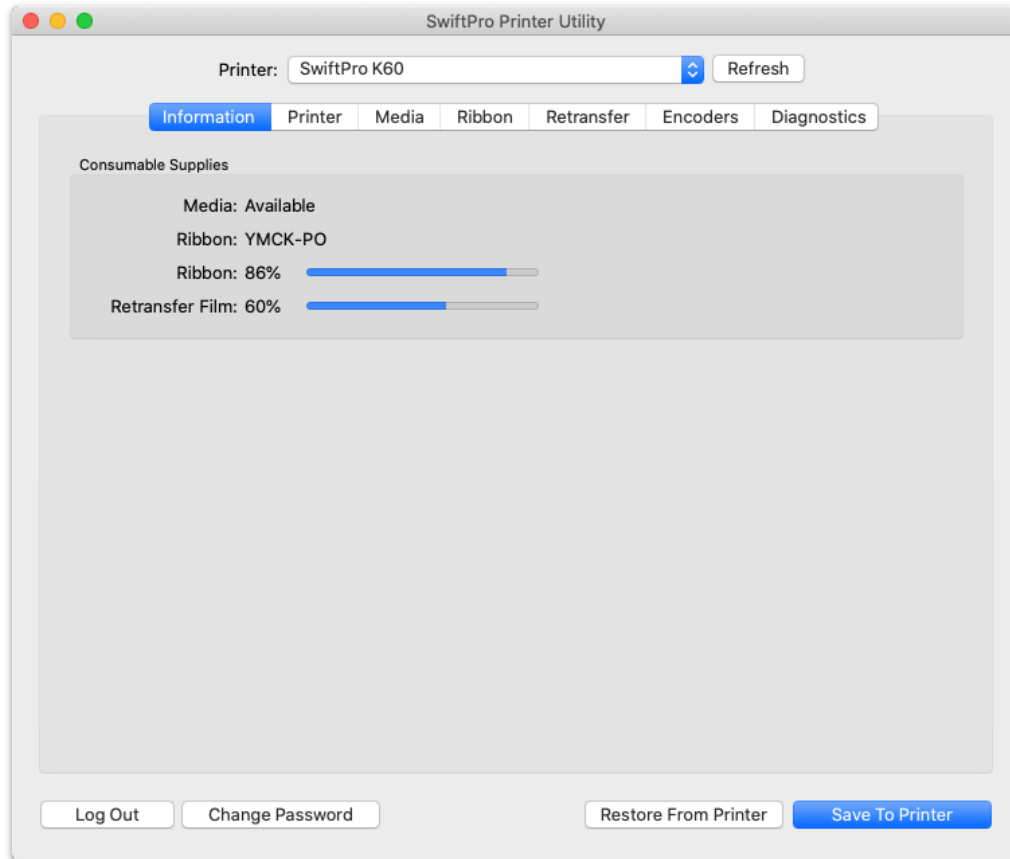
Click Save To Printer to save all changes to the printer's firmware.

Restore From Printer

If you are not sure of changes made to the settings, click Restore From Printer to restore displayed settings to the printer's current firmware values.

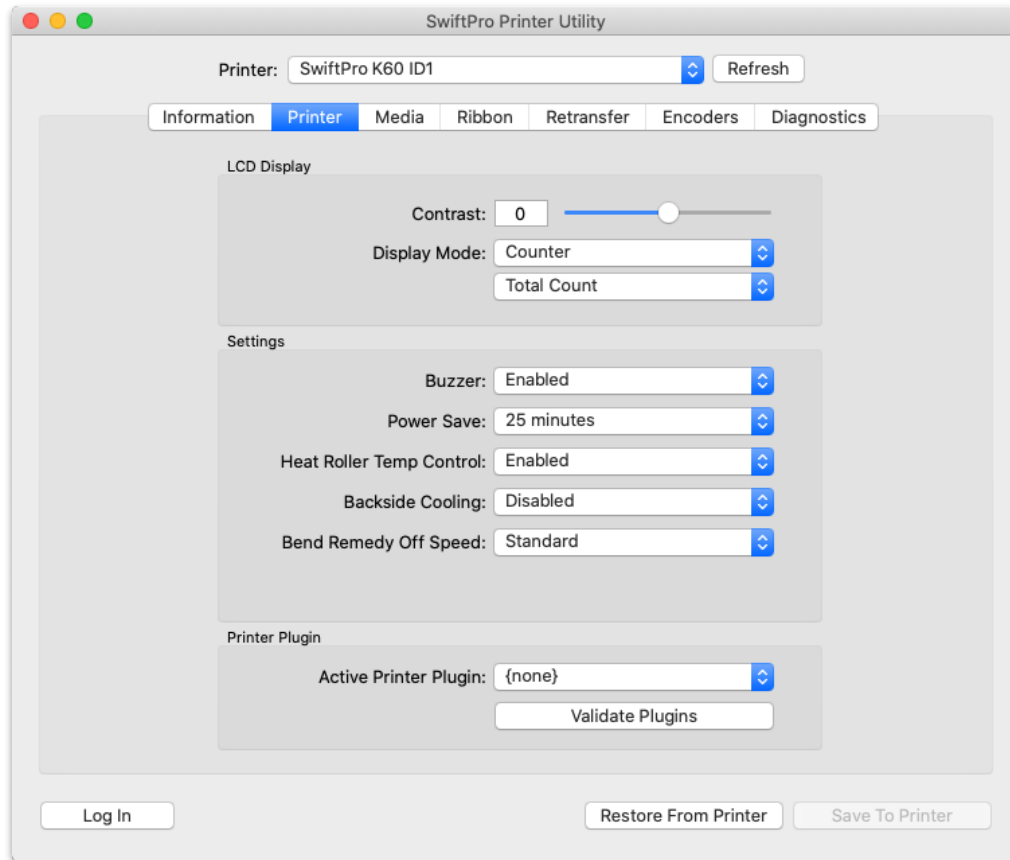
Information

The Information page displays the printer's consumable supply levels.



Printer

The Printer page displays general printer settings.



Contrast. Set the contrast of the printer's operation panel.

Display Mode. Set the information displayed on the printer's operation panel.

Buzzer. Enable the warning sound when an error occurs, when the cards run out, as well as the confirmation sound upon pressing the enter button on the printer's operation panel.

Power Save. Set the delay to power save mode.

Heat Roller Temp Control. Enable to decrease heat roller temperature when a card is not printed for 30 minutes.

Backside Cooling. Setting this item may help reduce card bend during double-sided printing. Note, printing time may be affected.

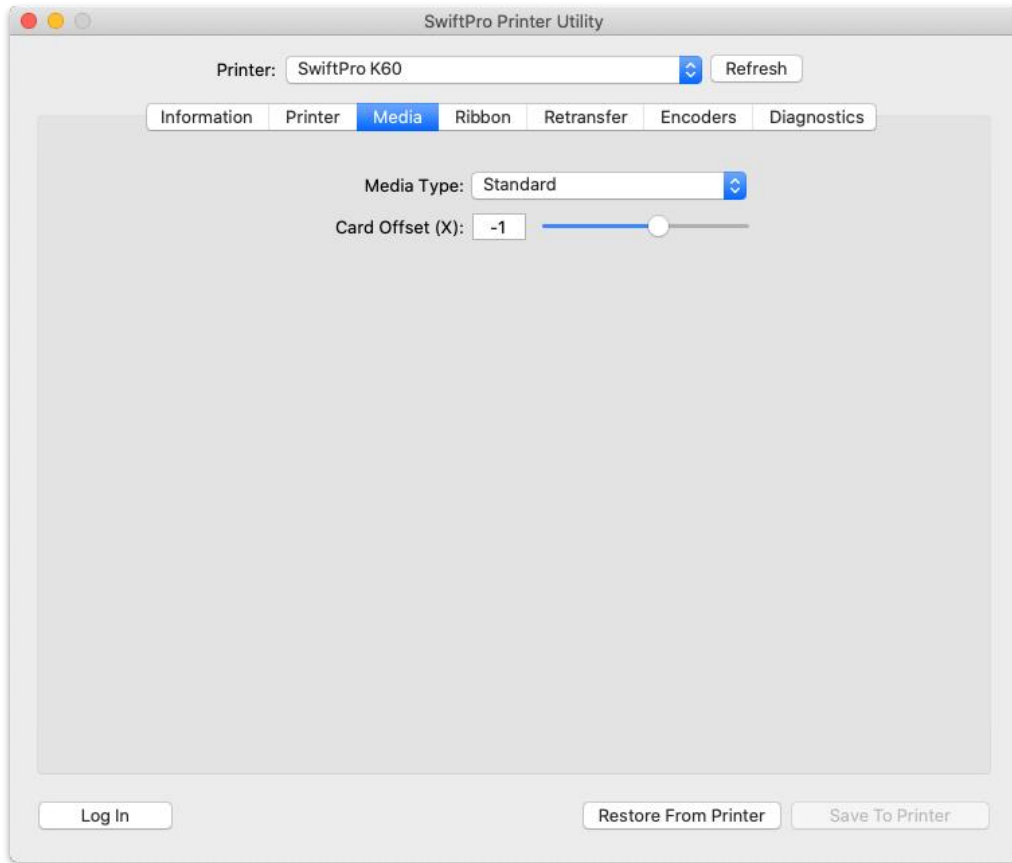
Bend Remedy Off Speed. Set delay for the bend remedy option.

Active Printer Plugin. Printer plugins support advanced printing options for mag encoding, contact and contactless encoding. Select the printer plugin from the dropdown list to use for the selected printer. A separate ZIP file containing a sample printer plugin and documentation is available for download.

Validate Plugins. Click to load each plugin and confirm the plugin is formatted correctly.

Media

The Media page displays settings related to media type and offset within the printer.



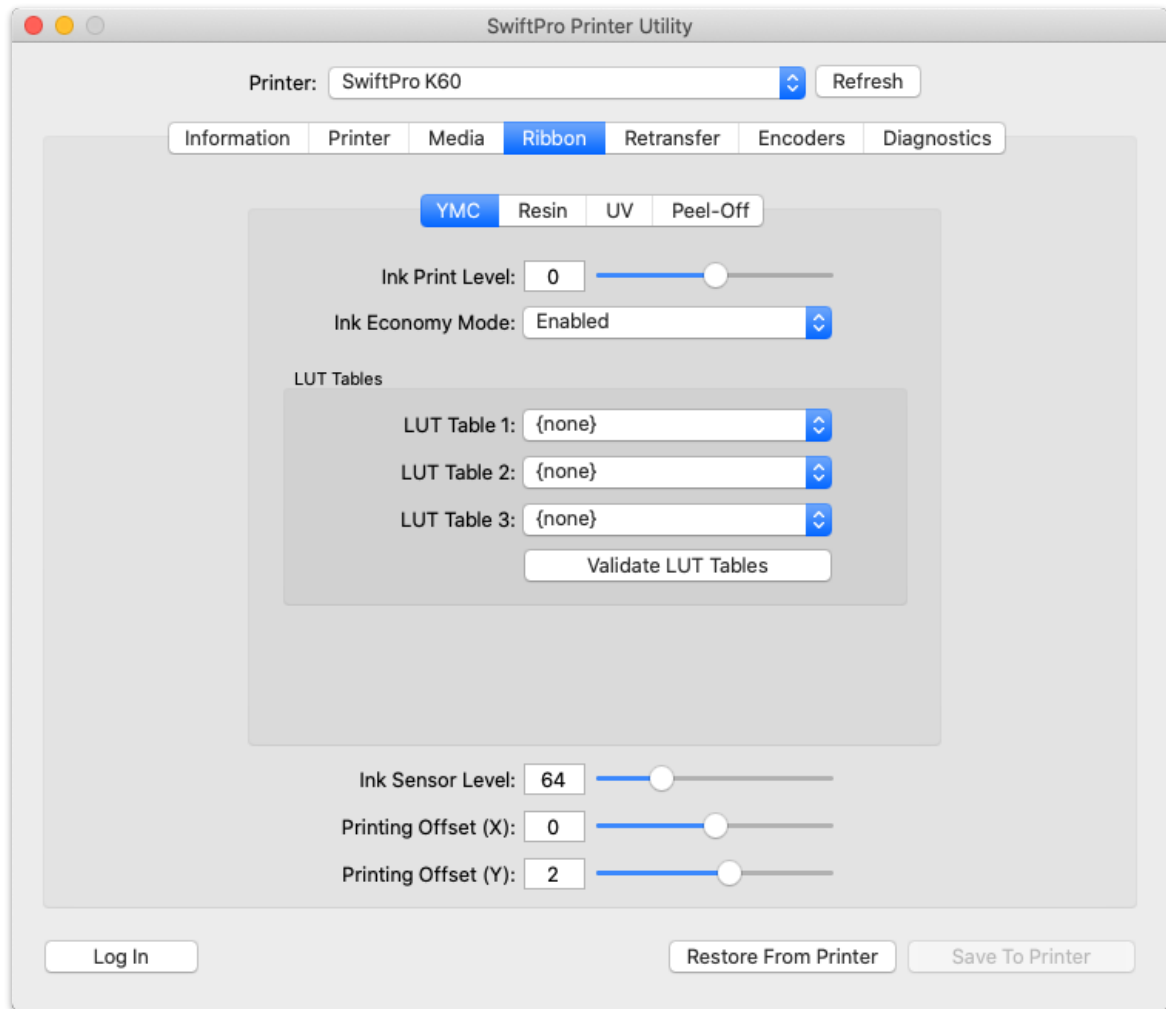
Media Type. Type of media in card hopper.

Card Offset (X). Horizontal offset of card.

Ribbon

The Ribbon page displays settings related to the YMC-K-UV-PO ribbon panels.

YMC Panels



Ink Print Level. Print density of the YMC ink.

Ink Economy Mode.

Ink Sensor Level.

Printing Offset (X). Set the horizontal offset to begin printing.

Printing Offset (Y). Set the vertical offset to begin printing.

LUT Tables

LUT tables are user-created files that control the color rendering of the YMC data sent to the printer. The tables are comma delimited files containing 256 rows of Y, M and C values in the range of 0 to 255. The printer will look up each Y-M-C value contained in the image data and replace it with the value in the corresponding row of the LUT table.

LUT tables are stored in the folder /Users/Shared/SwiftPro/LUT. A sample LUT table is placed in this folder and is named Sample LUT Table.csv. This file can be viewed in macOS Numbers, TextEdit or Microsoft Excel. It is a linear LUT table containing 0 through 255 in their respective rows.

The LUT tables must be validated after copying to the above LUT folder. The Validate LUT Tables button will scan all .csv files contained in the /Users/Shared/SwiftPro/LUT folder and validate each file's contents. Errors will be displayed if any file is found to contain invalid syntax.

The utility supports selecting up to three LUT tables as driver presets. The LUT Table 1, 2 and 3 drop downs will display the filenames of the .csv files found in the LUT folder. A LUT table can be selected for each of the three presets. The presets can then be selected under the Printer Features of the driver settings user interface.

Resin Panel

SwiftPro Printer Utility

Printer: SwiftPro K60 Refresh

Information Printer Media **Ribbon** Retransfer Encoders Diagnostics

YMC **Resin** UV Peel-Off

Ink Print Level: 0

Ink Economy Mode: Disabled

Black Mode: Fine

Scan Area Presets

Preset: 1 Black Tolerance: 0

Include Exclude

	X	Y	Width	Height
1.				
2.				
3.				

Enter coordinates relative to a landscape card. Valid units of measure include in, cm, mm and px. Leave areas blank to scan entire card.

Ink Sensor Level: 64

Printing Offset (X): 0

Printing Offset (Y): 2

Log In Restore From Printer Save To Printer

Ink Print Level. Print density of the Resin K ink.

Ink Economy Mode.

Black Mode. Selecting Fine enhances the print quality but slows down the print speed.

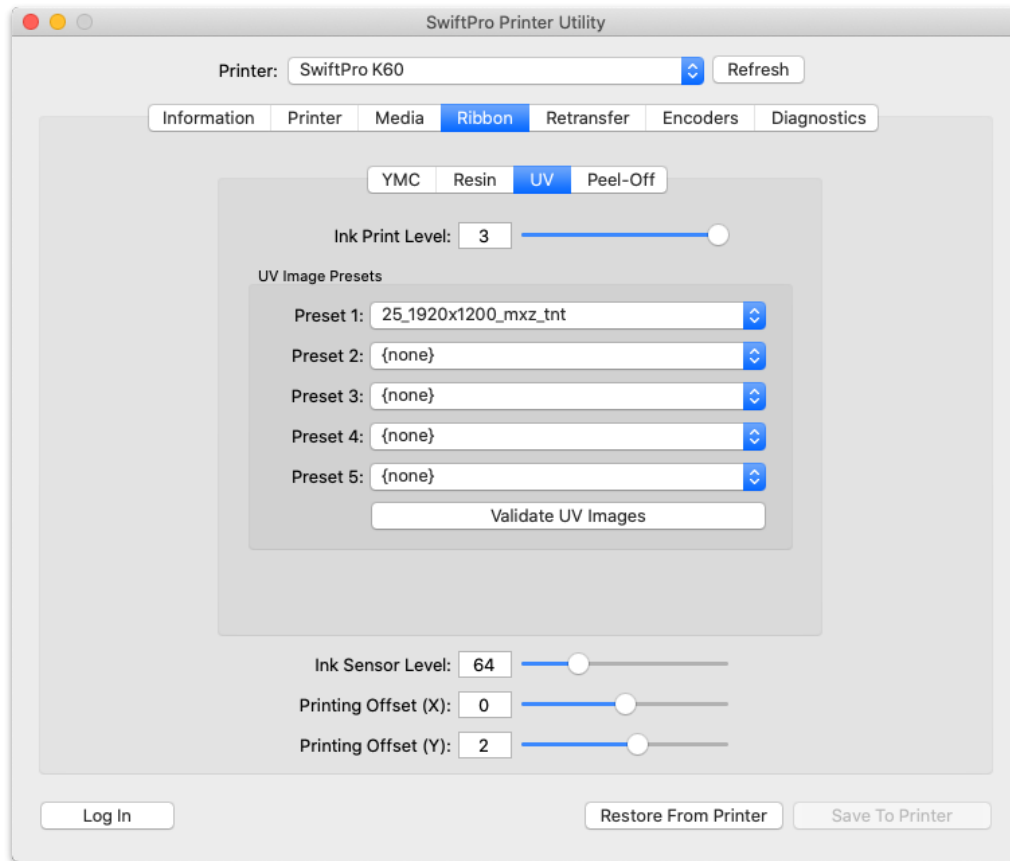
Scan Area Presets

Up to ten scan area presets can be defined with each preset containing up to 3 Include and Exclude areas. Each X, Y, Width and Height value must contain a decimal value and a unit of measure. The supported units of measure include in, cm, mm, px and ".

Black Tolerance

A black tolerance value is defined for each preset. The driver will convert each pixel to grayscale then transfer grayscale values less than equal to the tolerance to the resin panel. The default is 0 meaning the driver will only transfer true black values to the resin panel.

UV Panel



Ink Print Level. Print density of the UV ink.

UV Image Presets

Up to five UV image presets can be defined and selected within the driver's print settings. The utility will look for images in the /Users/Shared/SwiftPro/UV/K30 and /Users/Shared/SwiftPro/UV/K60 folders. Each image should be sized appropriately for the selected printer. The K30 printer's print size is 1036 x 664 and the K60 is 2072 x 1328. Larger image sizes will be cropped, and smaller image sizes will be centered within the print size.

The SwiftPro printers support grayscale UV images where white (255) is full UV application and black (0) is no UV. The SwiftPro Utility accepts color images and will convert to grayscale to produce the final UV output.

Note

The Validate UV Images button must be clicked to activate the images within the driver. The Validate UV Images buttons must also be clicked when an image is replaced with a newer version. The validation process will ensure the image can be loaded and then processed to the final image format supported by the driver. The processed images are placed in a different folder and are not accessible by the standard mac user account.

Peel-Off Panel

SwiftPro Printer Utility

Printer: SwiftPro K60 Refresh

Information Printer Media **Ribbon** Retransfer Encoders Diagnostics

YMC Resin UV **Peel-Off**

Ink Print Level: 0

Peel-Off Area Presets

Preset: 1

Peel-Off Keep

	X	Y	Width	Height
1.				
2.				
3.				

Enter coordinates relative to a landscape card. Valid units of measure include in, cm, mm and px.

Ink Sensor Level: 64

Printing Offset (X): 0

Printing Offset (Y): 2

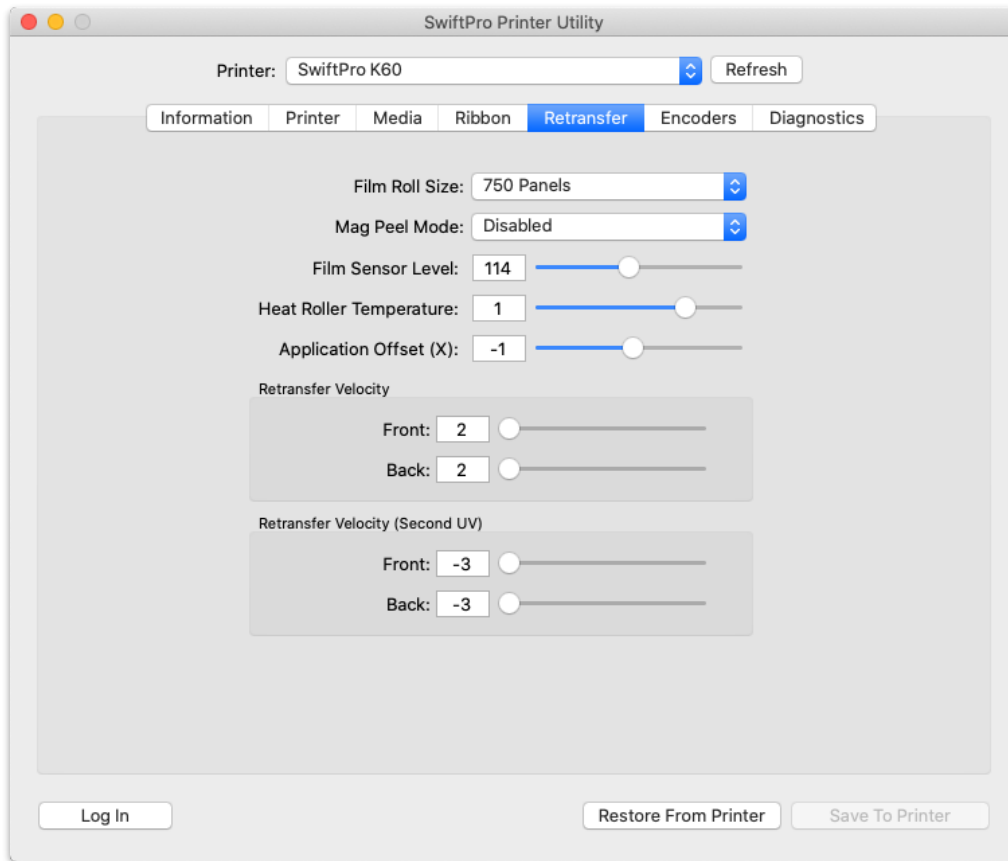
Log In Restore From Printer Save To Printer

Ink Print Level. Print density of the peel-off ink.

Peel-Off Area Presets

Up to ten peel-off area presets can be defined with each preset containing up to 3 Include and Exclude areas. Each X, Y, Width and Height value must contain a decimal value and a unit of measure. The supported units of measure include in, cm, mm, px and ”.

Retransfer



Film Roll Size. Size of the retransfer film roll.

Mag Peel Mode. When a magnetic encoder unit is installed, selecting Enabled will optimize the peeling operation of retransfer film for magnetic stripe cards

Film Sensor Level.

Heat Roller Temperature. Temperature of the retransfer heat roller.

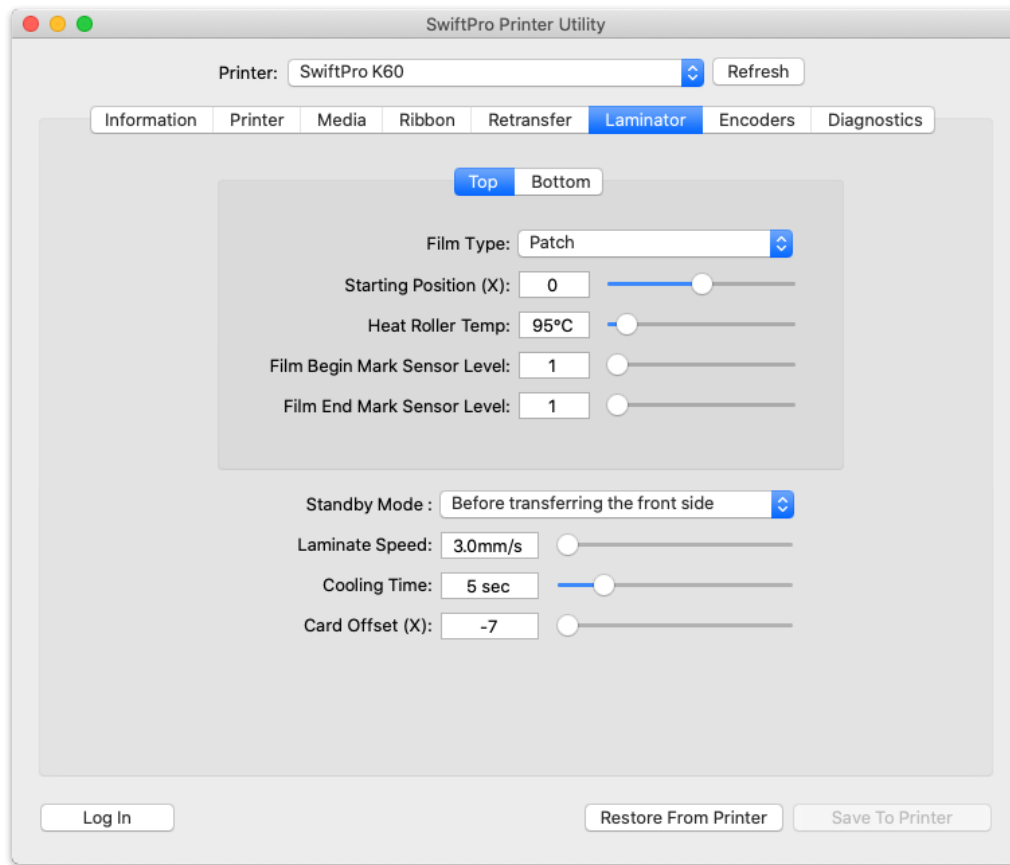
Application Offset (X). Horizontal offset to begin application of retransfer film.

Retransfer Velocity Front and Back. Speed at which the retransfer film is applied to card.

Retransfer Velocity Front and Back (Second UV). Speed at which the second retransfer of UV film is applied to card.

Laminator

The Laminator page shows settings for the optional laminator unit. The page will be hidden if the option is not installed.



Film Type. Select the type of film for the top and bottom laminator cassettes.

Starting Position (X). Set the horizontal patch position. The patch position can be adjusted to the left or right by 0.17mm per step.

Heat Roller Temp. Set the temperature of the laminator's heat rollers.

Film Begin Mark Sensor Level.

Film End Mark Sensor Level.

Standby Mode. Select the standby position of the card during double-sided printing until the laminator is ready.

Laminate Speed. Set how fast the laminate is applied to the card.

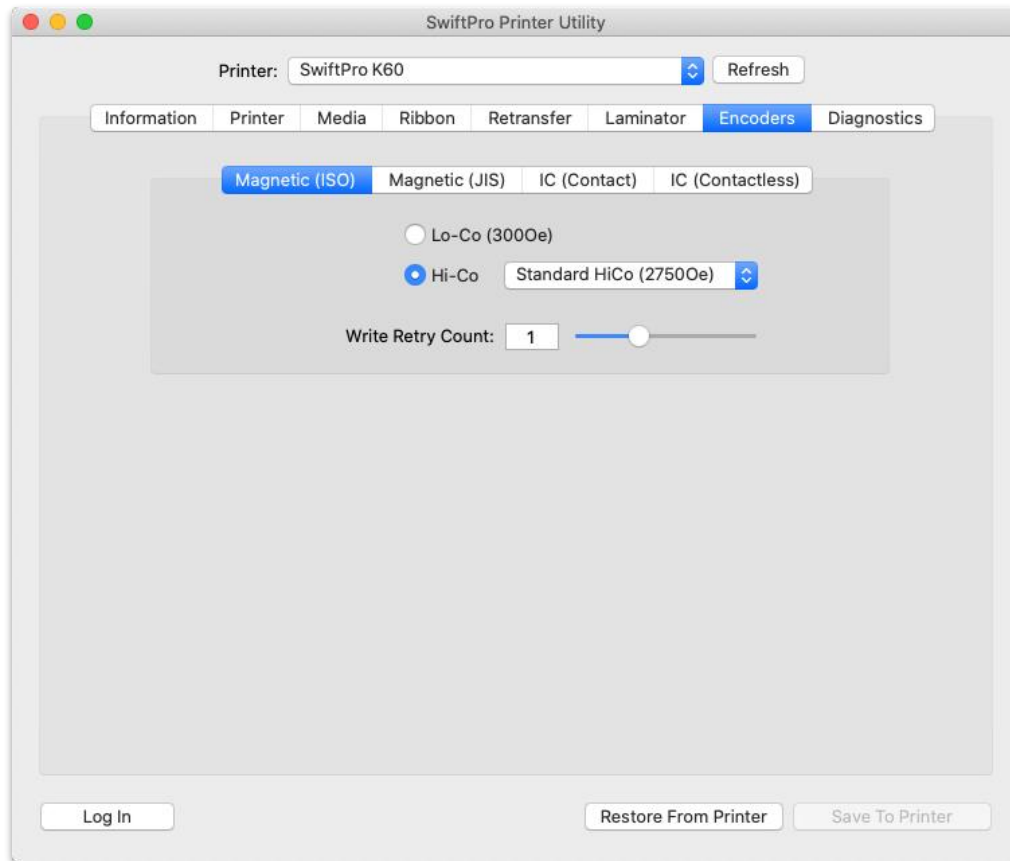
Cooling Time. Set the time the card remains in the printer to cool before releasing.

Card Offset (X). Set the horizontal offset to begin application of laminate.

Encoders

The Encoders pages show settings for the installed encoders. Pages will be hidden if the option is not installed.

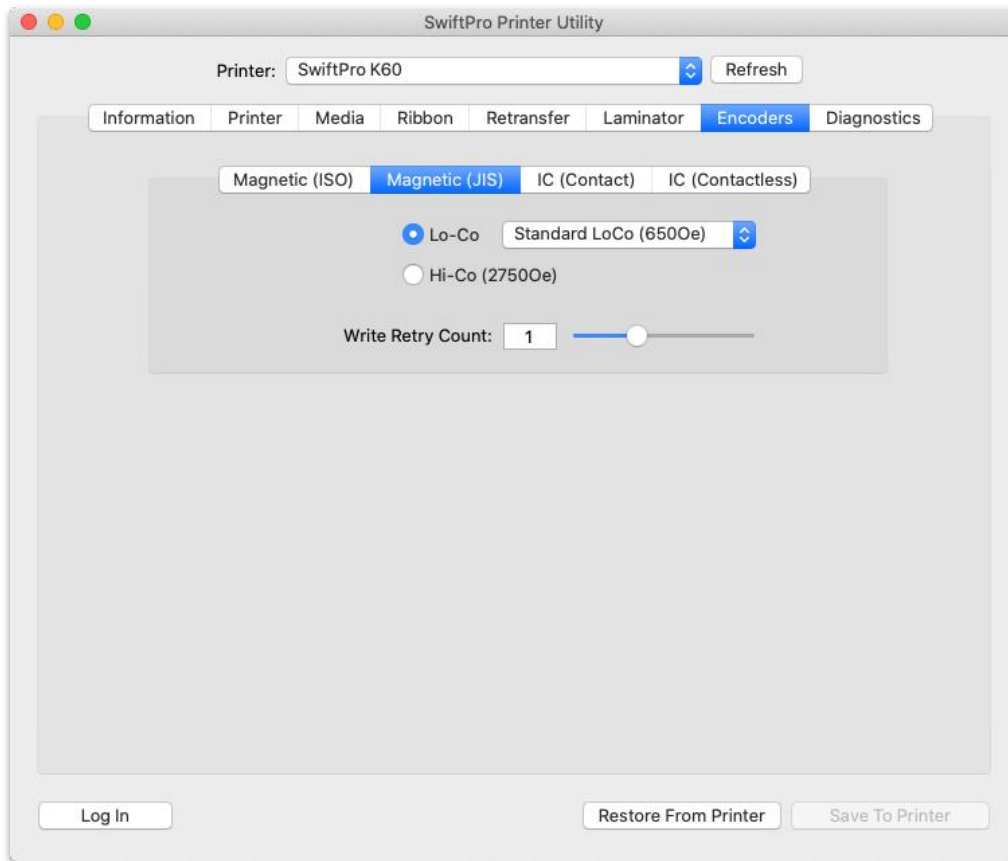
Magnetic (ISO)



Coercivity. Coercivity of the magnetic stripe card.

Write Retry Count. Set the number of retries when writing magnetic data.

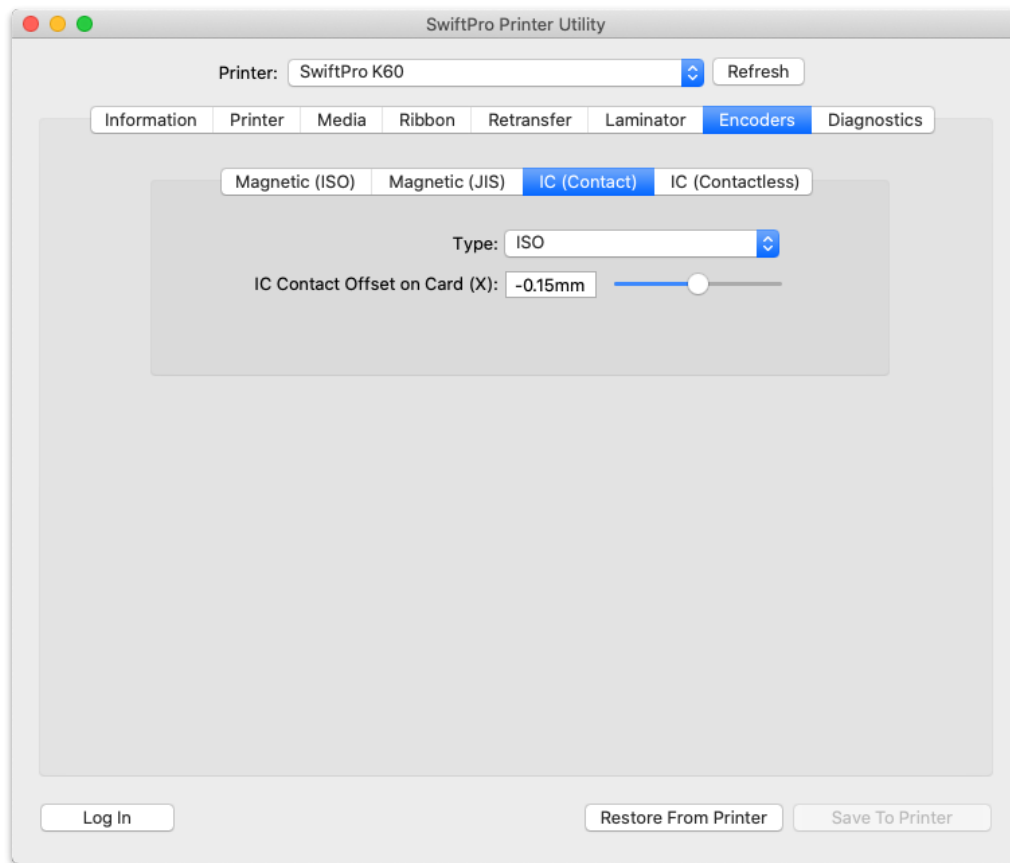
Magnetic (JIS)



Coercivity. Coercivity of the magnetic stripe card.

Write Retry Count. Set the number of retries when writing magnetic data.

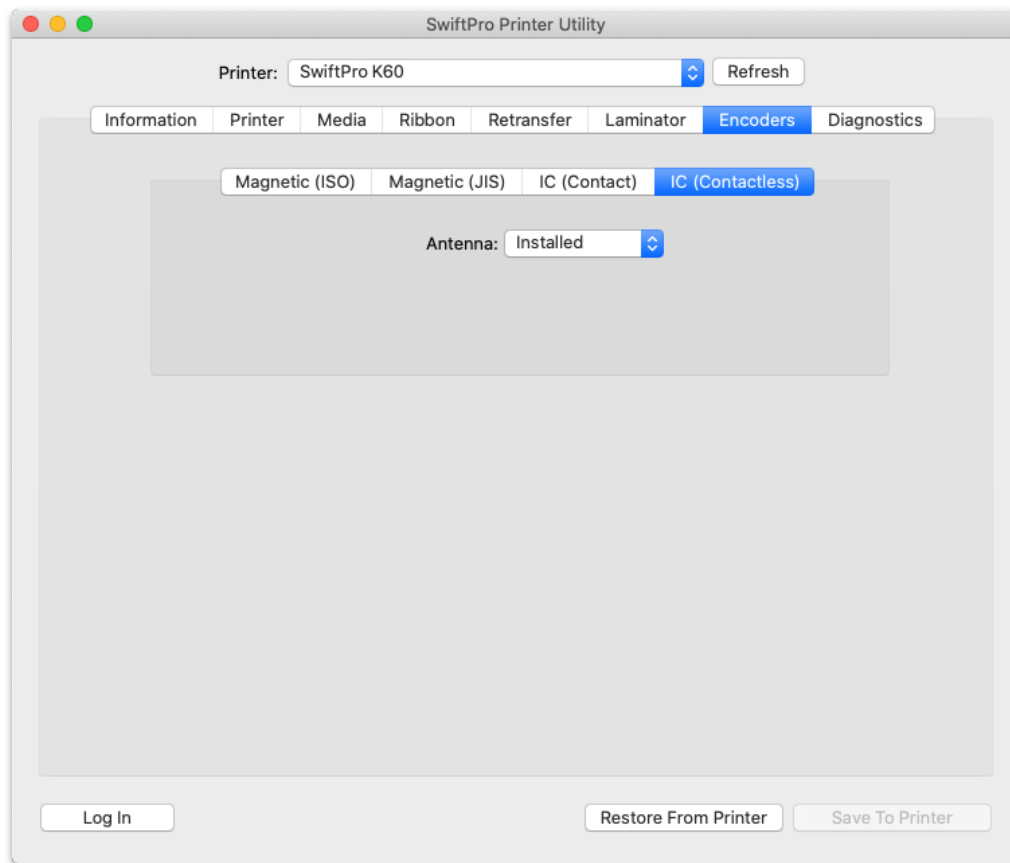
IC (Contact)



IC Type. Select the type of IC card.

IC Contact Offset on Card (X). Set the horizontal offset to the IC contact chip.

IC (Contactless)

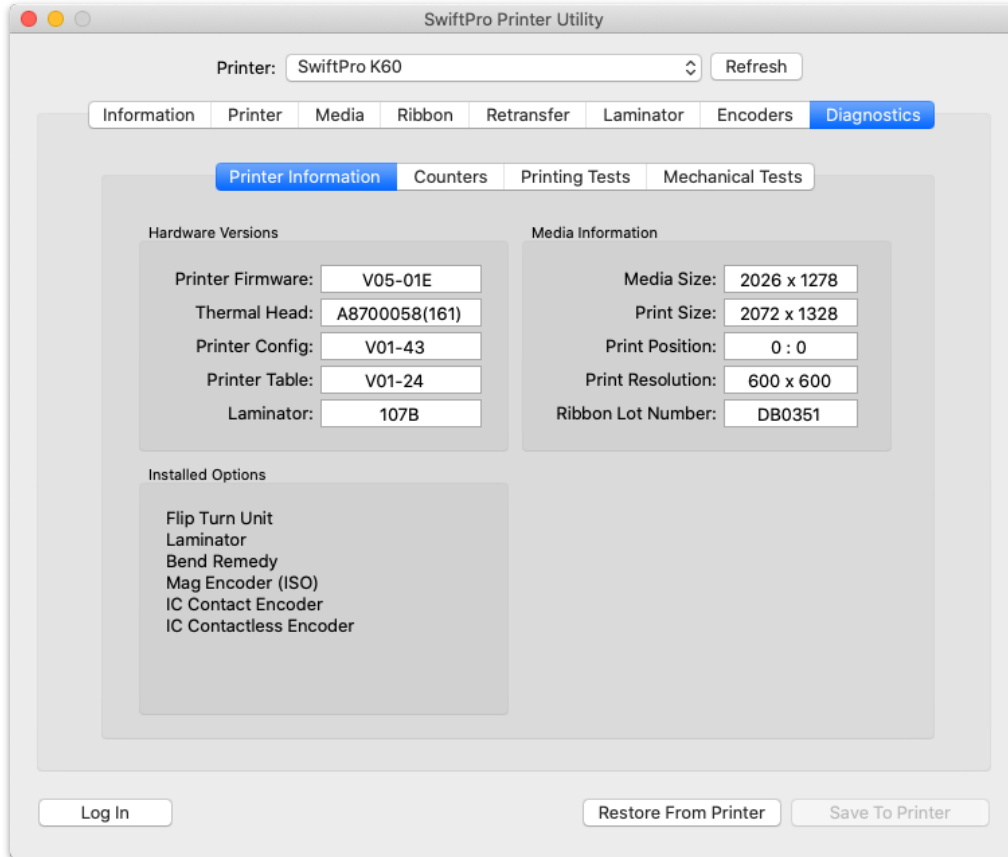


Antenna. Select for installed antenna.

Diagnostics

The Diagnostics pages show printer firmware and usage information along with options to perform printer tests.

Printer Information



The screenshot shows the 'SwiftPro Printer Utility' window with the 'Diagnostics' tab selected. Under the 'Printer Information' sub-tab, the 'Hardware Versions' section lists: Printer Firmware: V05-01E, Thermal Head: A8700058(161), Printer Config: V01-43, Printer Table: V01-24, and Laminator: 107B. The 'Media Information' section lists: Media Size: 2026 x 1278, Print Size: 2072 x 1328, Print Position: 0 : 0, Print Resolution: 600 x 600, and Ribbon Lot Number: DB0351. The 'Installed Options' section lists: Flip Turn Unit, Laminator, Bend Remedy, Mag Encoder (ISO), IC Contact Encoder, and IC Contactless Encoder. At the bottom are buttons for 'Log In', 'Restore From Printer', and 'Save To Printer'.

Hardware Versions	
Printer Firmware:	V05-01E
Thermal Head:	A8700058(161)
Printer Config:	V01-43
Printer Table:	V01-24
Laminator:	107B

Media Information	
Media Size:	2026 x 1278
Print Size:	2072 x 1328
Print Position:	0 : 0
Print Resolution:	600 x 600
Ribbon Lot Number:	DB0351

Installed Options

- Flip Turn Unit
- Laminator
- Bend Remedy
- Mag Encoder (ISO)
- IC Contact Encoder
- IC Contactless Encoder

Counters – Printer

The Printer Counters page shows accumulated statistics for the printer. Specific statistics can be cleared using the Reset buttons.

The screenshot shows the 'SwiftPro Printer Utility' window. At the top, the printer is identified as 'SwiftPro K60' with a 'Refresh' button. Below this are several tabs: 'Information', 'Printer', 'Media', 'Ribbon', 'Retransfer', 'Laminator', 'Encoders', and 'Diagnostics'. The 'Diagnostics' tab is selected, and within it, the 'Counters' sub-tab is active. The 'Counters' sub-tab has two sub-sections: 'Printer' and 'Laminator'. The 'Printer' sub-section displays the following data:

	Total	Since Reset	Since Cleaning	
Print Count:	499	89	499	Reset
Error Count:	0			
Head Count:	2707			

The 'Laminator' sub-section displays the following data:

	Total	Since Reset	
Retransfer Heat Roller Power On Time:	13:50:00	13:50:00	Reset
Bend Remedy Heat Roller Power On Time:	0:10:00	0:10:00	Reset

At the bottom of the window, there are four buttons: 'Log Out', 'Change Password', 'Restore From Printer', and 'Save To Printer'.

Print Count. Displays the number of cards that printed correctly (Total, Since Reset and Since Cleaning).

Error Count. Displays the total number of cards that did not print correctly.

Head Count. Displays the number of ink panels printed for the thermal head.

Retransfer Heat Roller Power On Time Total time retransfer heat rollers were powered on (Total and Since Reset).

Bend Remedy Heat Roller Power On Time Total time bend remedy heat roller was powered on (Total and Since Reset).

Counters – Laminator

The Laminator Counters page shows accumulated statistics for the laminator. Specific statistics can be cleared using the Reset buttons.

The screenshot shows the 'SwiftPro Printer Utility' window. At the top, a dropdown menu shows 'Printer: SwiftPro K60' with a 'Refresh' button. Below this is a series of tabs: 'Information', 'Printer', 'Media', 'Ribbon', 'Retransfer', 'Laminator', 'Encoders', and 'Diagnostics'. The 'Diagnostics' tab is selected. Inside this tab, there are sub-tabs: 'Printer Information', 'Counters', 'Printing Tests', and 'Mechanical Tests'. The 'Counters' sub-tab is selected. Within the 'Counters' sub-tab, there are two more sub-tabs: 'Printer' and 'Laminator'. The 'Laminator' sub-tab is selected. The main content area displays the following statistics:

	Total	Since Cleaning
Laminate Count:	244	244

	Total	Since Reset	
Heat Roller Power On Time (Top):	0:10:00	0:15:00	Reset
Heat Roller Power On Time (Bottom):	2:55:00	2:55:00	Reset

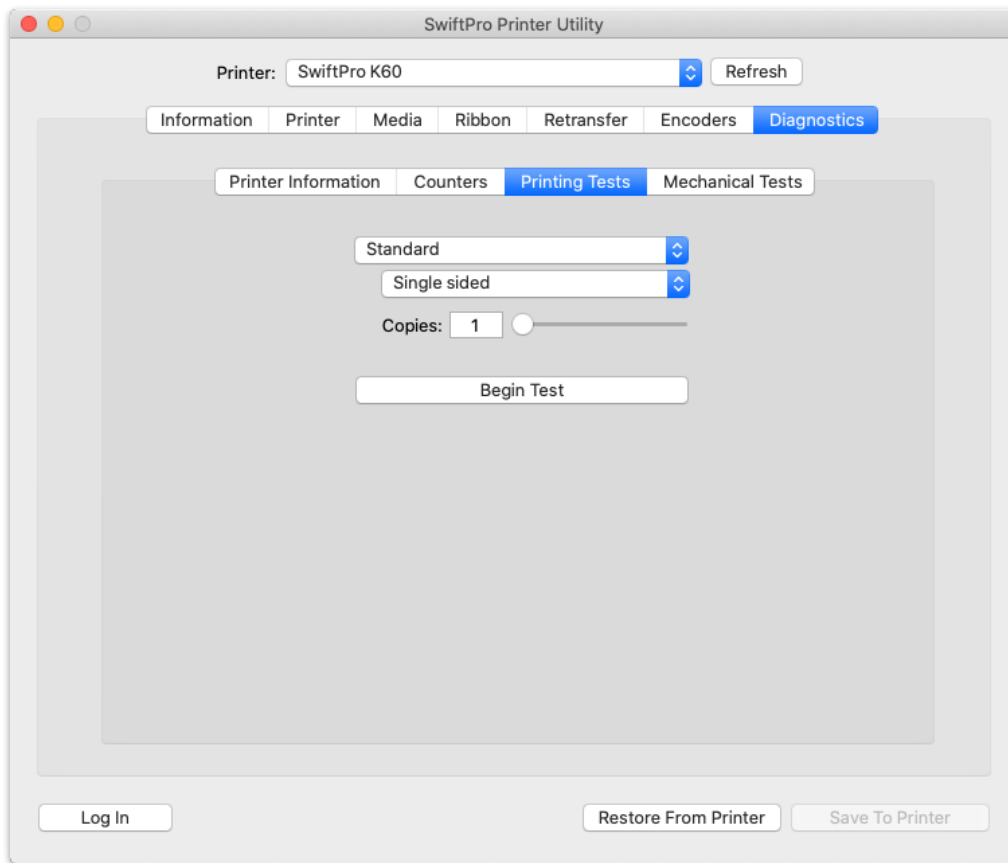
At the bottom of the window, there are four buttons: 'Log Out', 'Change Password', 'Restore From Printer', and 'Save To Printer'.

Laminate Count. Displays the number of laminations performed (Total and Since Cleaning).

Heat Roller Power On Time. Total time laminator heat rollers were powered on (Total and Since Reset).

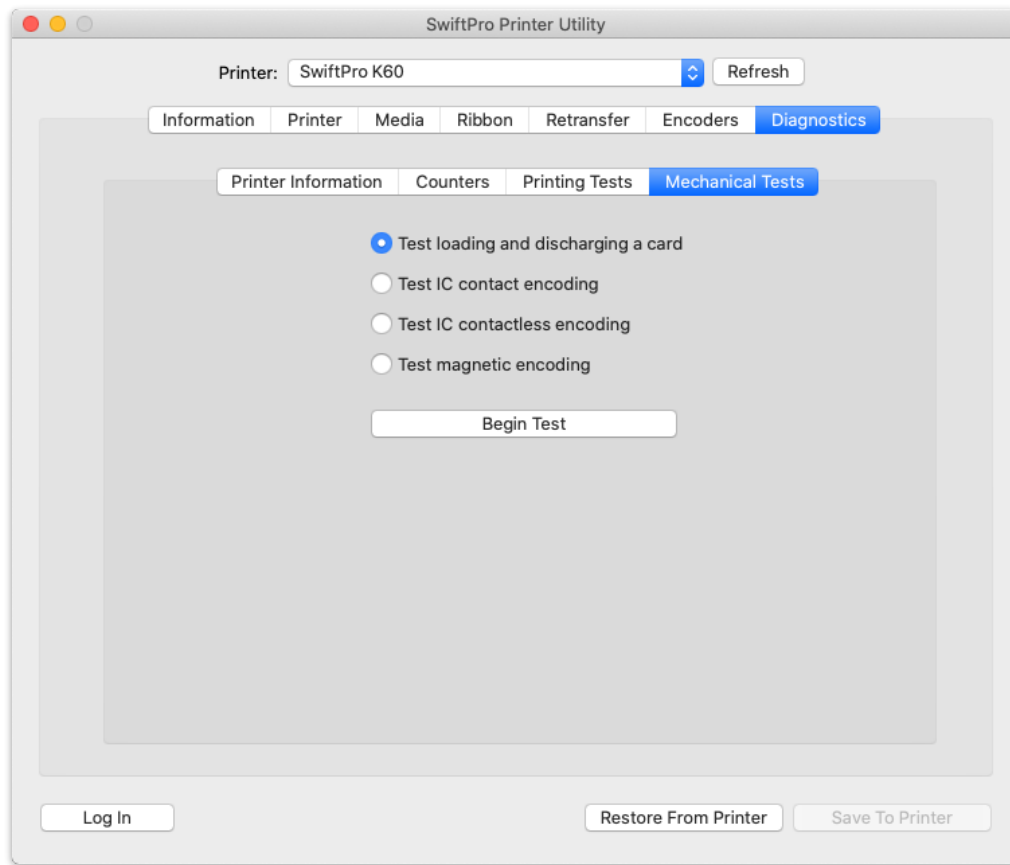
Printing Tests

Standard printing tests can be initiated from the Printing Tests page. Select the desired test, the number of copies and click Begin Test.



Mechanical Tests

The printer's mechanical functionality can be tested via the Mechanical Tests page. Select the desired test and click Begin Test.



Default Print Settings

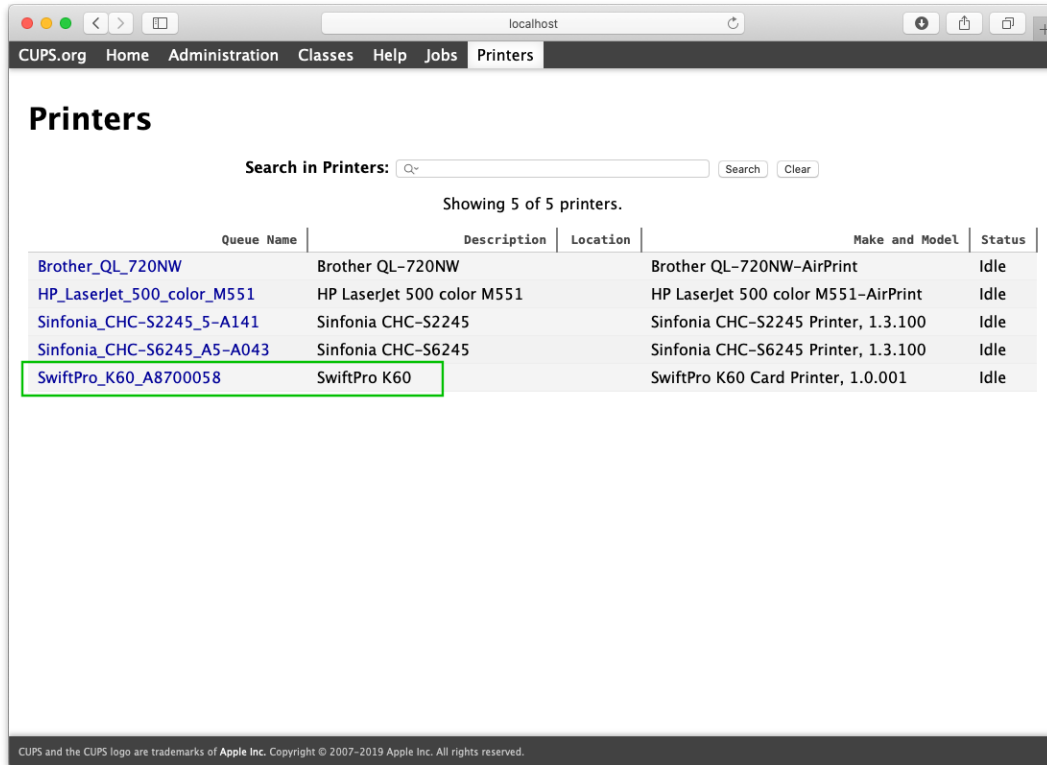
The Apple macOS operating system supports defining default print settings through a web interface. Open the Safari browser and browse to URL `localhost:631/printers`.

If the web interface is not enabled on your computer, follow these steps to enable:

1. Open the Terminal application via the Application / Utilities folder within Finder
2. Type the following command and press enter: `cupscctl WebInterface=yes`
3. Close the Terminal application
4. You should now be able to browse to `localhost:631/printers` within Safari.

Printers

The Printers page will show a list of installed printers. Select the desired SwiftPro printer from the list.



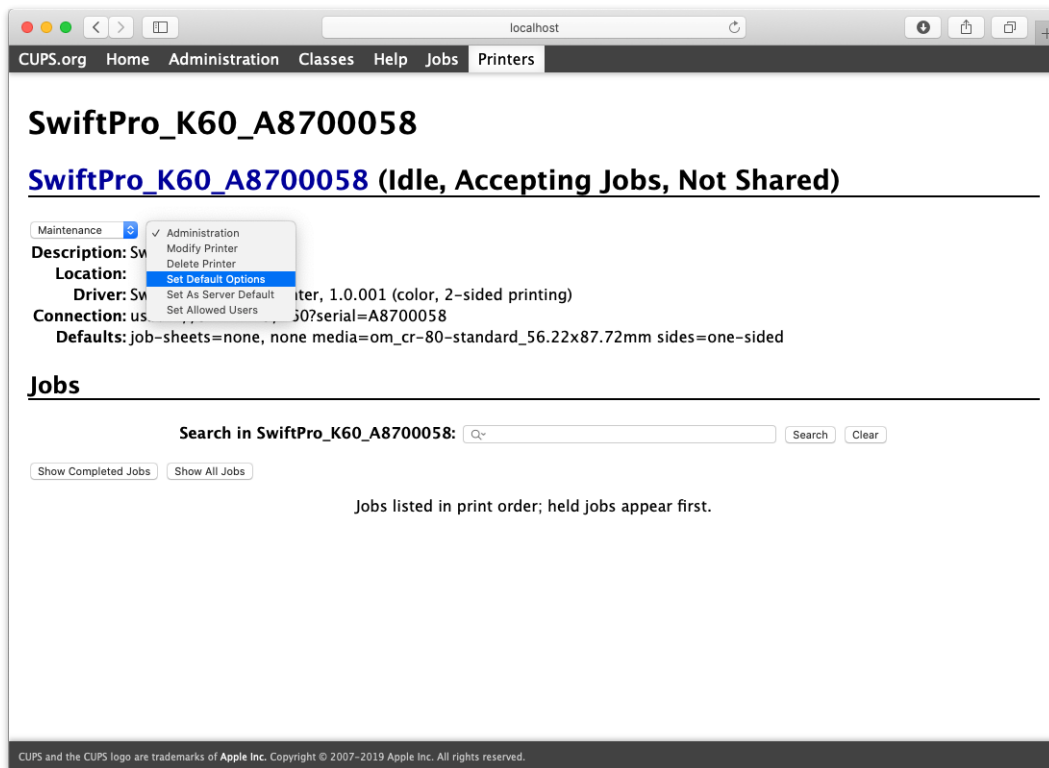
The screenshot shows a web browser window at localhost displaying the CUPS.org Printers page. The page has a navigation bar with links: CUPS.org, Home, Administration, Classes, Help, Jobs, and Printers. Below the navigation bar, the title "Printers" is displayed. A search bar labeled "Search in Printers:" is present, followed by a "Search" button and a "Clear" button. Below the search bar, it says "Showing 5 of 5 printers." A table lists the installed printers with columns: Queue Name, Description, Location, Make and Model, and Status. The SwiftPro K60_A8700058 printer is highlighted with a green box.

Queue Name	Description	Location	Make and Model	Status
Brother_QL-720NW	Brother QL-720NW	Brother QL-720NW-AirPrint		Idle
HP_LaserJet_500_color_M551	HP LaserJet 500 color M551	HP LaserJet 500 color M551-AirPrint		Idle
Sinfonia_CHC-S2245_5-A141	Sinfonia CHC-S2245	Sinfonia CHC-S2245 Printer, 1.3.100		Idle
Sinfonia_CHC-S6245_A5-A043	Sinfonia CHC-S6245	Sinfonia CHC-S6245 Printer, 1.3.100		Idle
SwiftPro_K60_A8700058	SwiftPro K60	SwiftPro K60 Card Printer, 1.0.001		Idle

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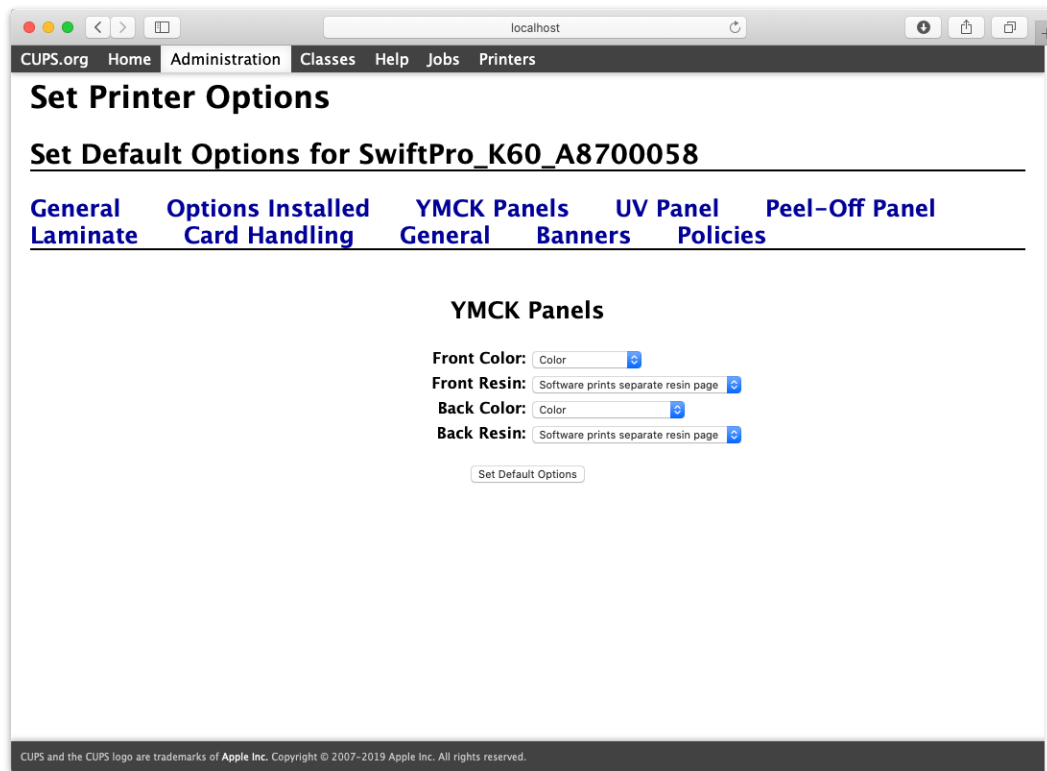
Options

The printer information page will be displayed. Click the second drop down and select Set Default Options.



Print Settings

The list of print setting categories is displayed. Click any of the categories and change the settings to the desired default values. Click Set Default Options to save.



Uninstall Printer Driver

The driver can be uninstalled, and all files deleted by running the following command from a Terminal prompt:

```
sudo /Users/Shared/SwiftPro/uninstall
```

You will be prompted for the root password before executing the script. It is not necessary to uninstall the current driver when upgrading to a new version.