

# **Swiftpro K30 and K60 Series Printers**

## Printer Driver Reference Debian Linux

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## Overview

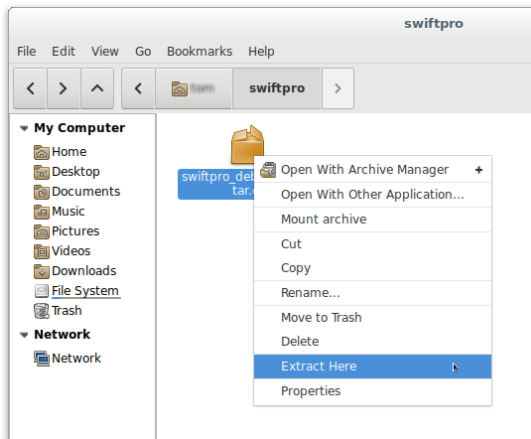
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The Swiftpro printer driver is compatible with the following Linux distributions and printers.

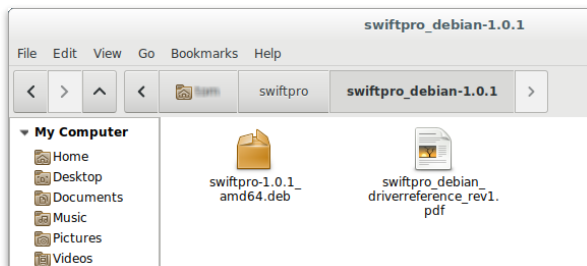
Linux OS: Debian 9 and 10

Printers: Swiftpro K30, K30D, and K60

The setup package is distributed as a compressed .tar.gz which can be extracted to the local hard drive. Right-click the file and select Extract Here to extract the setup package to local storage.



The setup package will be extracted to a folder of the same name as the setup package. The setup folder contains a Debian software package and a Printer Driver Reference PDF file.



## Driver Installation

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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.

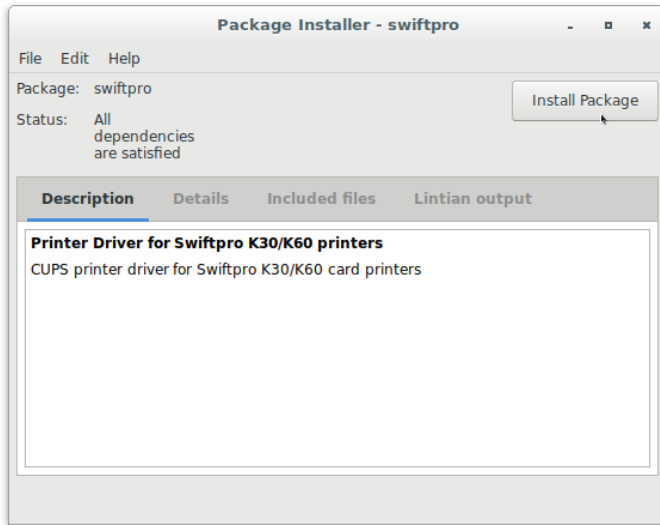
### Note

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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.

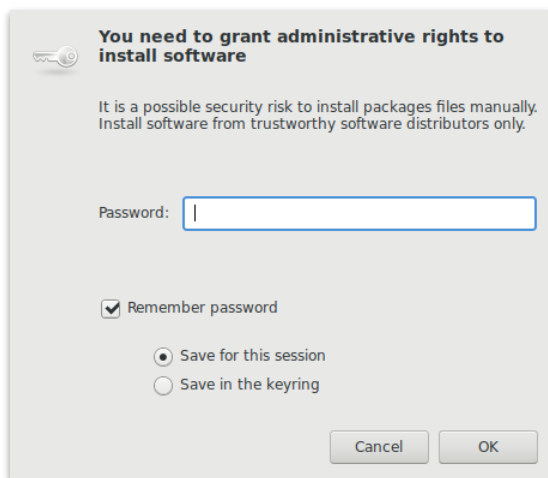
### Setup Package

Double-click the .deb setup package to run the Debian Package Installer. Click Install Package to begin installation.



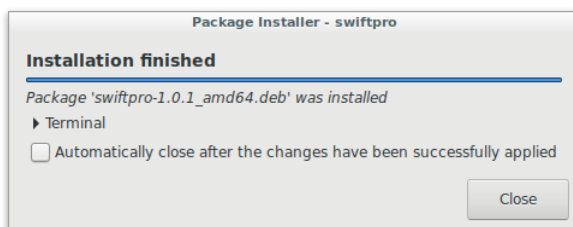
## Root Log In

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



## Installation

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



## Installation from Terminal

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The printer driver can also be installed using Debian's `dpkg` command line program using the following command:

```
sudo dpkg --install swiftpro-1.0.2_amd64.deb
```

Note: Change the filename to the correct package release number.

## Create Printer Connection

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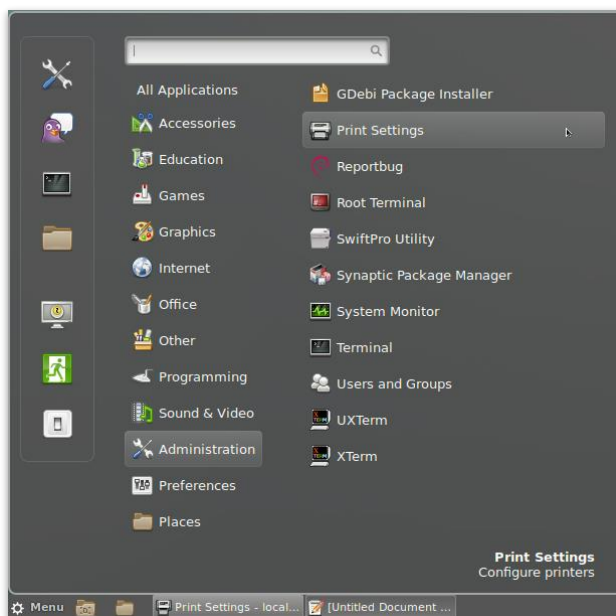
Linux will generally create new printer connections when a unique printer is connected to the computer. If a new connection is not created, run the following command to create connections to available printers:

```
sudo swiftproex --createPrinters
```

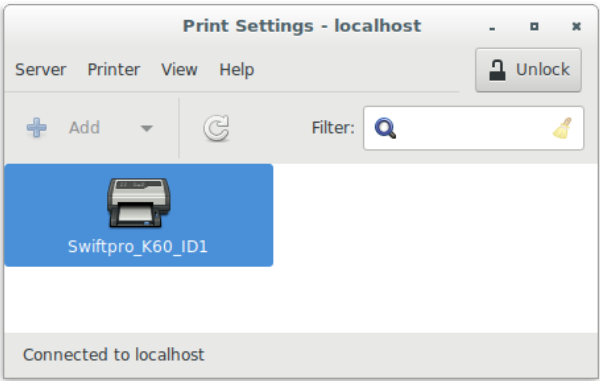
## Debian Print Settings

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Debian places the Print Settings utility under the Desktop Menu. The application is generally placed under the Administration menu.

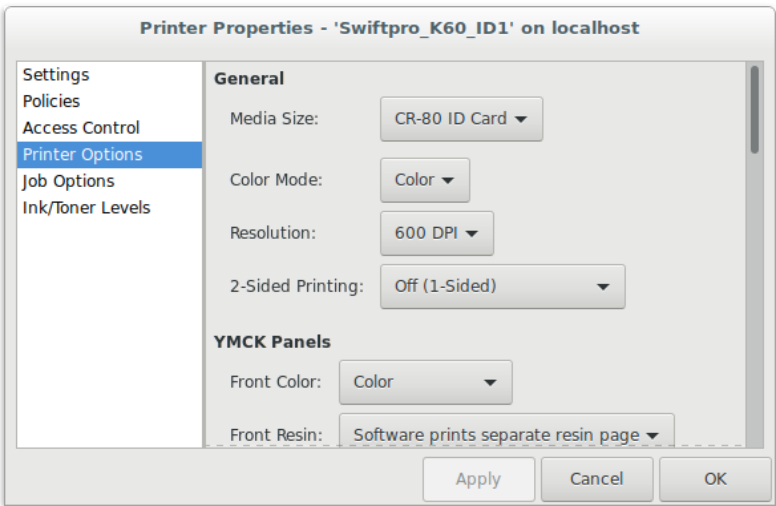


Print Settings will display an icon for each installed printer. Double-click the Swiftpro printer to view its settings.

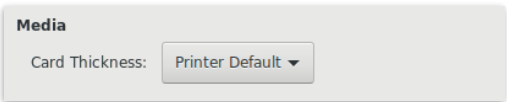


## Swiftpro Settings

The printer driver includes additional settings specific to the Swiftpro card printers. The default settings can be selected through the Printer Options menu.



## Media



### Card Thickness

Select the card thickness of the current media.

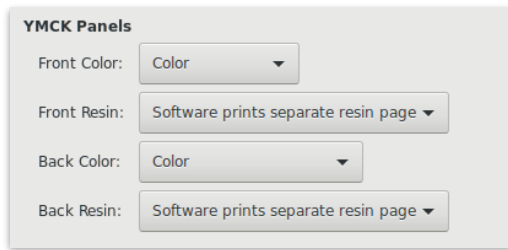
#### Printer Default

Use current printer selection.

#### Thin (.25mm)

#### Standard

## YMCK Panels

A screenshot of a software settings window titled "YMCK Panels". It contains four rows of settings, each with a label and a dropdown menu. The first row is "Front Color:" with a dropdown showing "Color". The second row is "Front Resin:" with a dropdown showing "Software prints separate resin page". The third row is "Back Color:" with a dropdown showing "Color". The fourth row is "Back Resin:" with a dropdown showing "Software prints separate resin page".

### Color

The Color 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

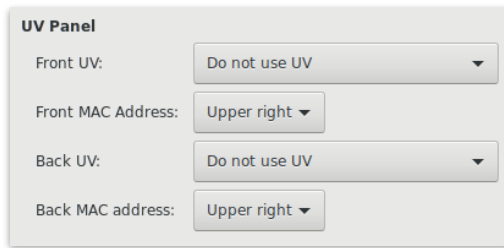
Scan area presets can be set using the Swiftpro Utility and selected via one of the ten presets. The printer driver will scan the color data within the defined areas for black pixels and print them via the K panel.

#### 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 Panel**

Front UV: Do not use UV ▼

Front MAC Address: Upper right ▼

Back UV: Do not use UV ▼

Back MAC address: Upper right ▼

### 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 full UV intensity during application. White (255) is no UV applied. The page background should be set to White (255) and then drawn with the desired shades of gray if lower UV intensity is desired or full Black (0).

#### **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.

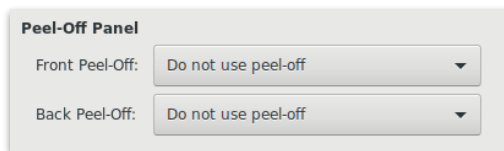
### **MAC Address**

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 Panel**

Front Peel-Off: Do not use peel-off ▼

Back Peel-Off: Do not use peel-off ▼

### 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).

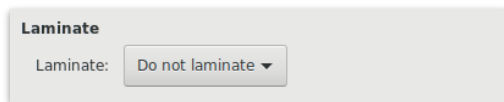
#### **Peel-off areas defined in preset 1...10**

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.

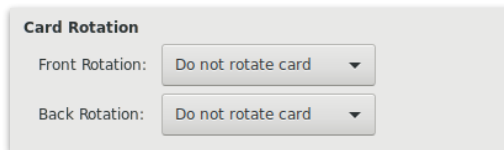
#### **Do not laminate**

Thermal laminate is not applied.

#### **Laminate card**

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

## **Card Rotation**



### **Rotation**

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

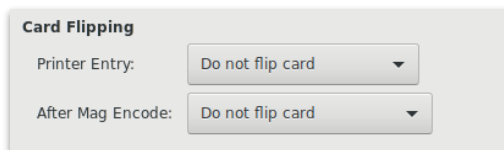
#### **Do not rotate card**

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**



### **Printer Entry**

The Printer Entry option controls flipping the card when it enters the printer.

#### **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**

The After Mag Encode option controls flipping the card after completing the mag encode operation.

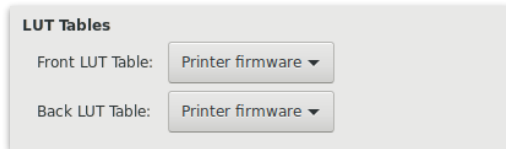
##### **Do not flip card**

Card is not flipped after mag encoding.

##### **Flip card after mag encode**

Card is flipped after mag encoding.

## **LUT Tables**



**LUT Tables**

Front LUT Table: Printer firmware ▼

Back LUT Table: Printer firmware ▼

#### **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.

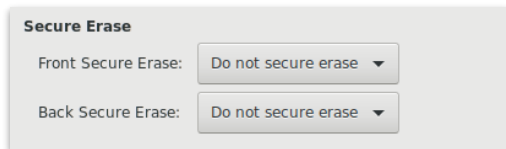
##### **Printer firmware**

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**



**Secure Erase**

Front Secure Erase: Do not secure erase ▼

Back Secure Erase: Do not secure erase ▼

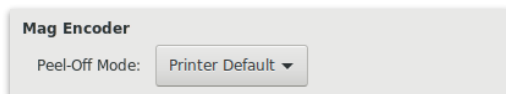
#### **Secure Erase**

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**

## **Mag Encoder**



**Mag Encoder**

Peel-Off Mode: Printer Default ▼

#### **Peel-Off Mode**

The printer's mag peel-off feature will not apply film to the mag stripe area when mag encoding is performed.

##### **Printer Default**

Use current printer selection.

##### **Auto**

Printer driver will enable the option when magnetic data has been received.

##### **Disabled**

Option is always disabled.

## Enabled

Option is always enabled.

## PPD Options

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Following is the complete list of custom printer options which can be set using the CUPS printing sdk.

Option	Value	Visual Description
cardThickness	Default	Current printer selection.
	Thin	Thin (.25mm)
	Standard	Standard card thickness
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 no 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
magPOMode	Default	Use current printer selection.
	Auto	Printer driver will enable the option when magnetic data has been received.
	Disabled	Option is always disabled.
	Enabled	Option is always enabled.
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

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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

It is recommended to not include more than one printed card per print job.

## Magnetic Encoding

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The printer driver supports magnetic encoding via PPD print options. If you are not familiar with CUPS PPD Options, reference the CUPS documentation at [www.cups.org/documentation.html](http://www.cups.org/documentation.html).

The custom PPD options which can be set using the CUPS function, `cupsAddOption`, 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 PPD options to encode data on track 1:

```
int num_options;

cups_option_t * options; // num_options and options must be initialized using a CUPS
                          // function. This sample assumes num_options and options are
                          // already initialized.

num_options = cupsAddOption("magEncodeFormat1", "ISO6-79", num_options, &options);
num_options = cupsAddOption("magEncodeData1", "1234567890", num_options, &options);
```

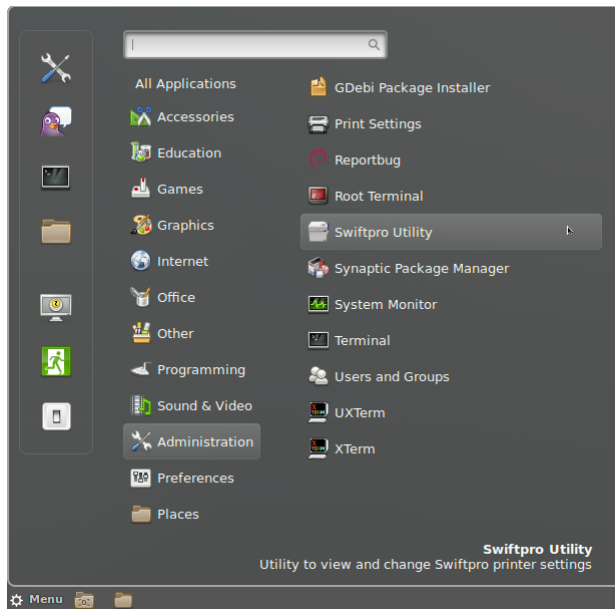
## Character Sets

ISO 4 bit		ISO 6 bit				ISO 7 bit					
	0	SP	0	@	P	SP	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

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The Swiftpro Utility is used to display consumable supply levels and view and adjust printer settings. The utility can be accessed through the Linux Desktop Home Button. The exact menu group is dependent on the installed Desktop UI but is generally placed under the Administration menu. The utility can also be run from `/usr/bin/swiftpro-utility`.



## 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.

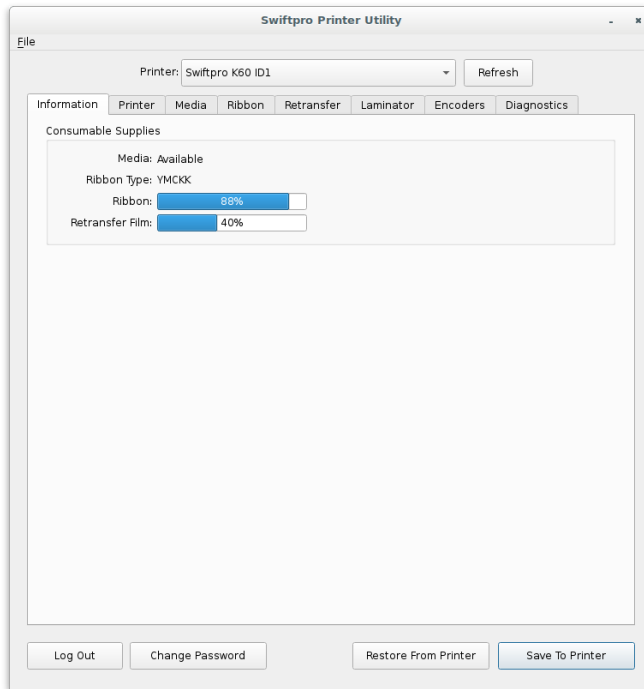
### Restore From Printer

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.



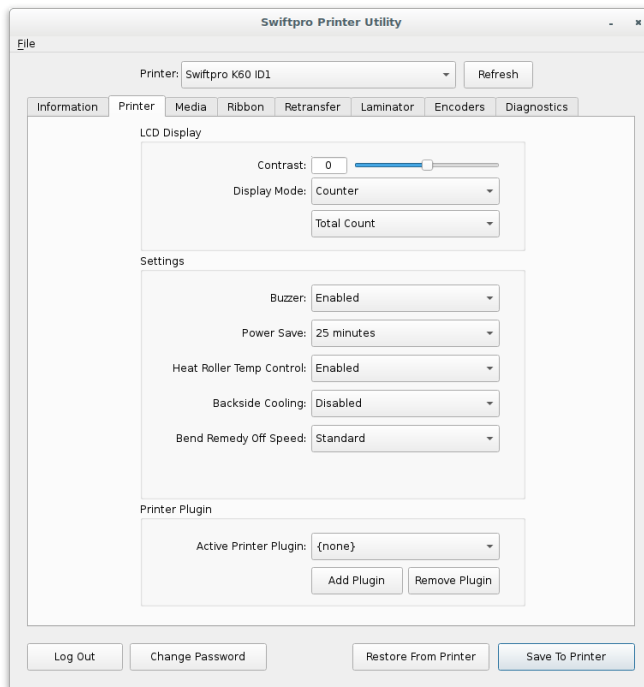
## Information

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



## Printer

The Printer page displays general printer settings.



### LCD Display

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

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

## Settings

**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.

## Printer Plugin

**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 package containing a sample printer plugin and documentation is available for download.

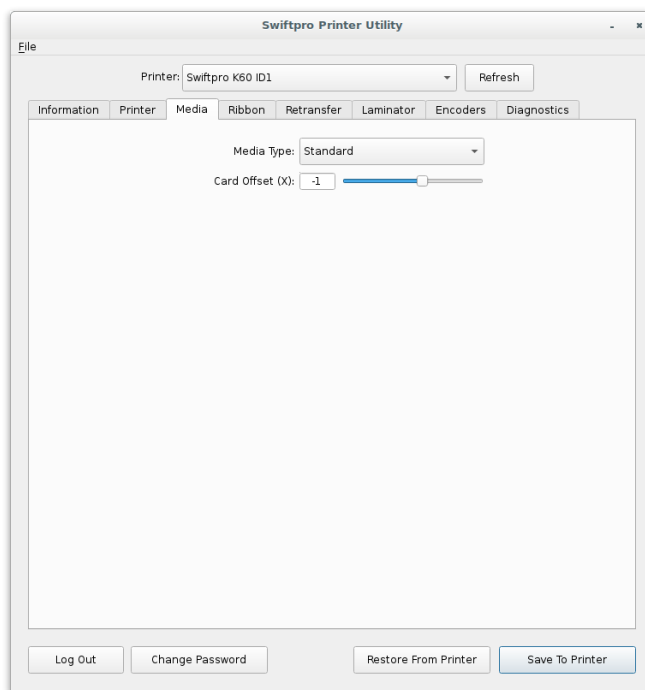
**Add Plugin.** Click to add a printer plugin to the Active Printer Plugin selection list. The plugin functionality will be confirmed during the process.

**Remove Plugin.** Click to remove a printer plugin from the Active Printer Plugin selection list. The list of available plugins will be displayed for removal selection.

**Updating Plugins.** To update an existing plugin first Remove Plugin and then Add Plugin selecting the updated file.

## Media

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



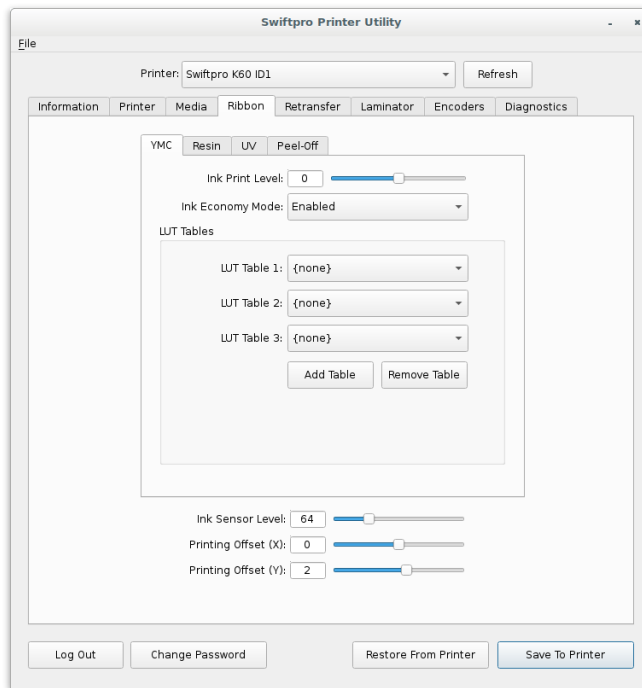
**Media Type.** Type of media in card hopper. This setting becomes the Printer Default setting within the printer driver.

**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.

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 added using the Add Table button. 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.

**Add Table.** Click to add a LUT Table to the three selection lists. The LUT Table contents will be confirmed during the process.

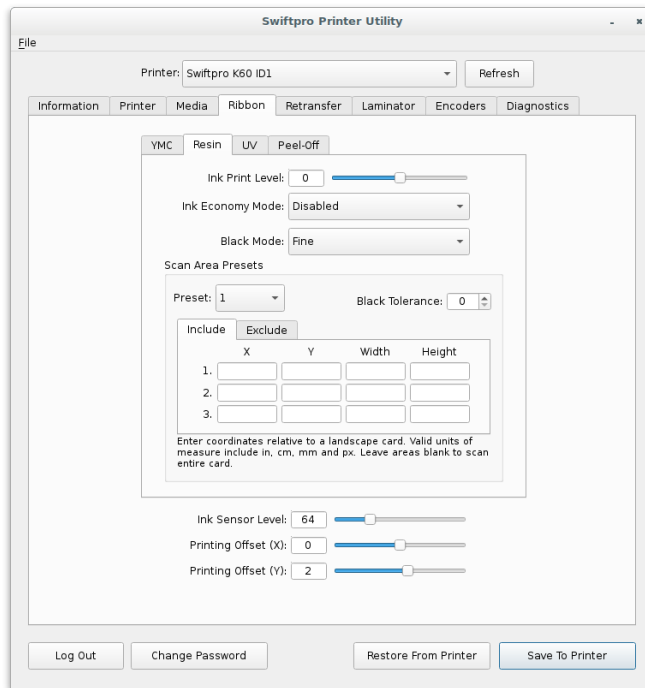
**Remove Table.** Click to remove a LUT Table from the three selection lists. The list of available LUT Tables will be displayed for removal selection.

**Updating Tables.** To update an existing table first Remove Table and then Add Table selecting the updated file.

### Note

The driver installation copies a sample LUT Table to /var/opt/swiftpro/lut.

## Resin Panel



**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.

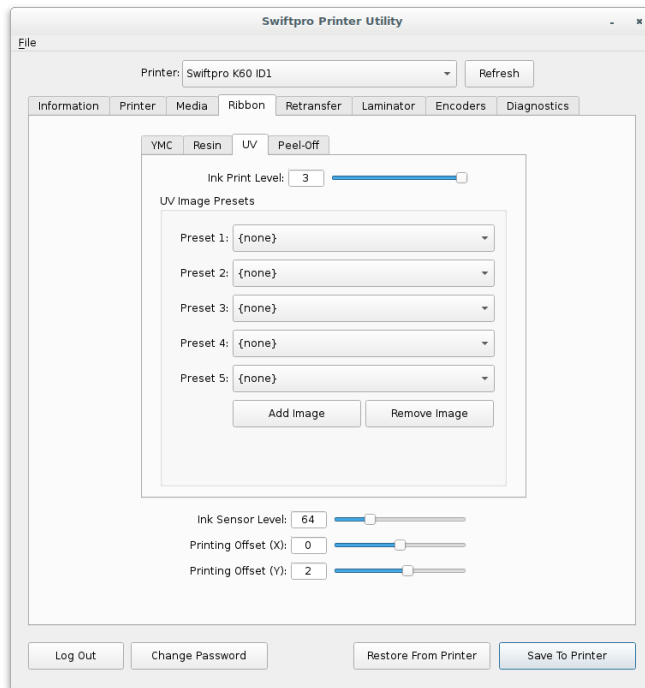
### Scan Area Presets

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 images should be sized to a full page supported by the printer. The K30's print size is 1036 x 664 and the K60's 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 black (0) is full UV application and white (255) is no UV. The Swiftpro Utility accepts color images and will convert to grayscale to produce the final UV output.

**Add Image.** Click to add an image to the five selection lists. The image will be processed and copied to a folder accessible to the printer driver.

**Remove Image.** Click to remove an image from the five selection lists. The list of available images will be displayed for removal selection.

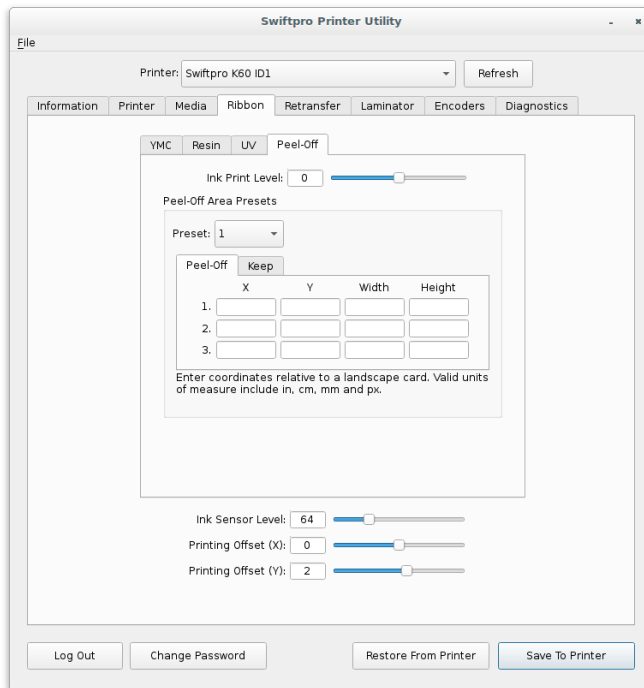
**Updating Images.** To update an existing image first Remove Image and then Add Image selecting the updated file.

### Note

The utility copies the selected images to a folder accessible to the printer driver. If you wish to change the contents of an existing image, the current image must be removed from the lists via the Remove Image button and then re-added via the Add Image button.

The driver installation copies a sample UV image to `/var/opt/swiftpro/uv`. Look under the K30 and K60 subfolders specific to your printer model.

## Peel-Off Panel

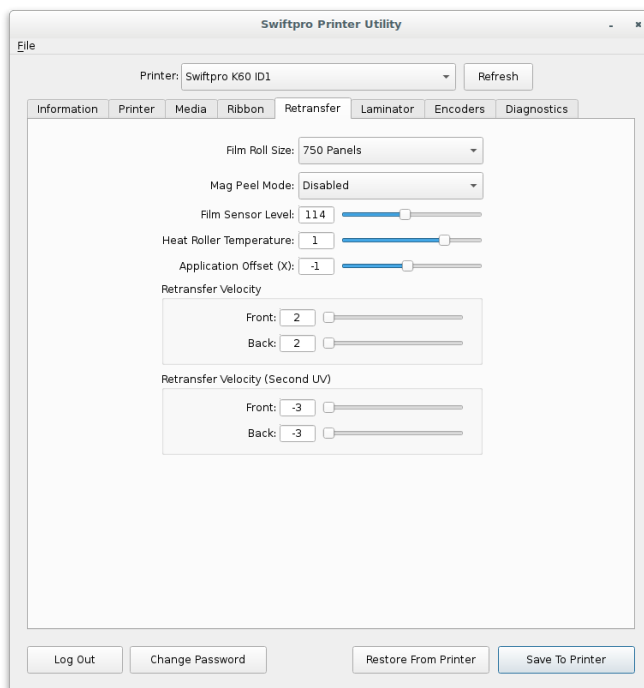


**Ink Print Level.** Print density of the peel-off ink.

## 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 the retransfer film around the magnetic stripe area on the cards. This setting becomes the Printer Default setting within the printer driver.

**Film Sensor Level.**

**Heat Roller Temperature.** Temperature of the retransfer heat roller.

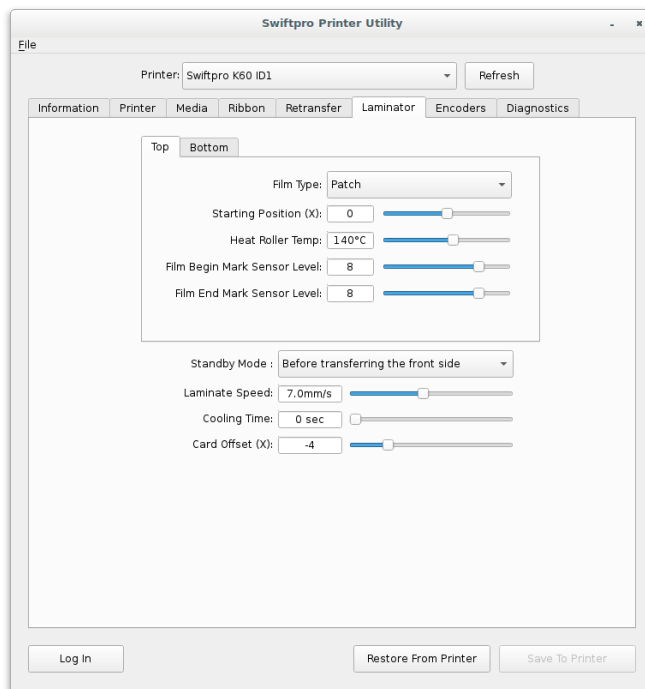
**Application Offset (X).** Horizontal offset to begin application of retransfer film.

**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.

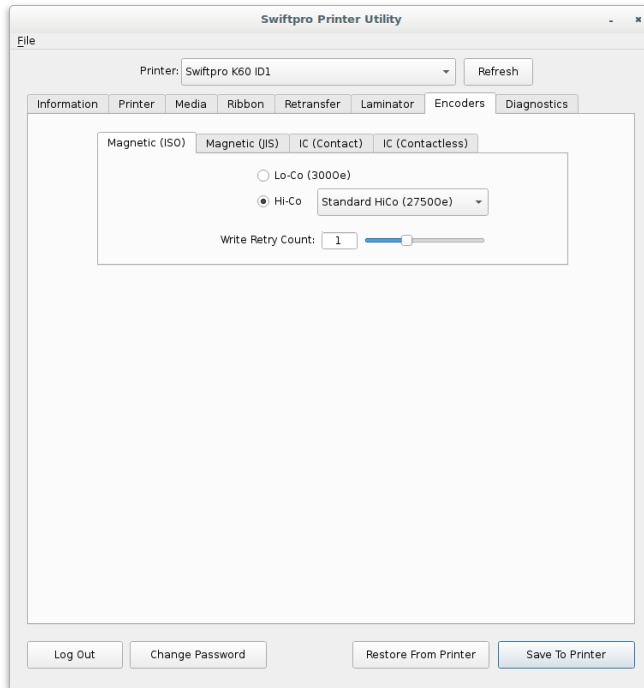
**Cooling Time.** Set the time the card remains in the printer to cool before releasing.

**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)

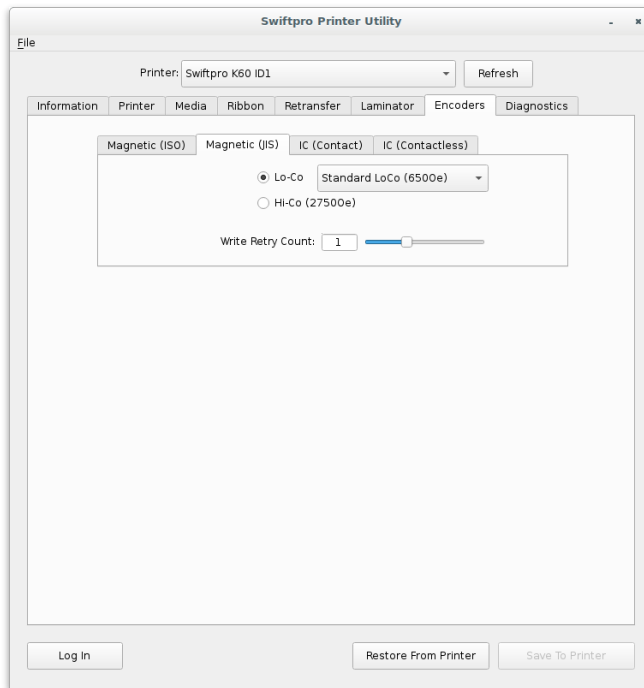


**Coercivity.** Coercivity of the magnetic stripe card.

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



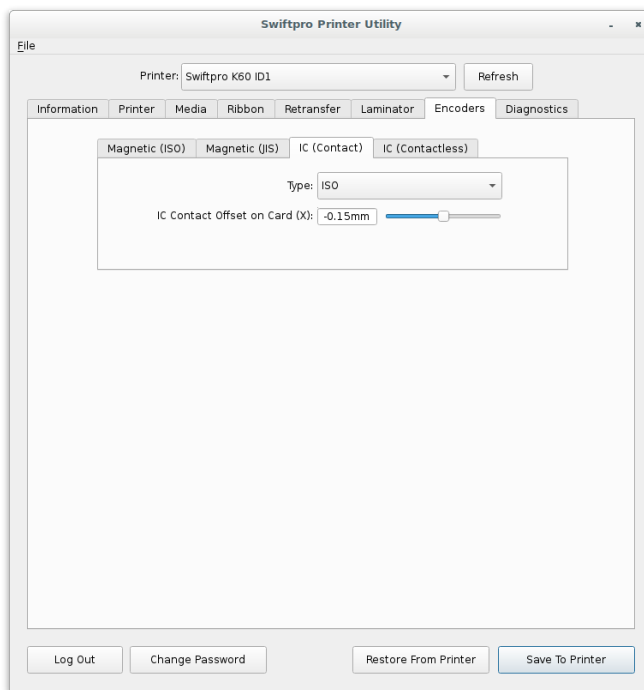
## Magnetic (IIS)



**Coercivity.** Coercivity of the magnetic stripe card.

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

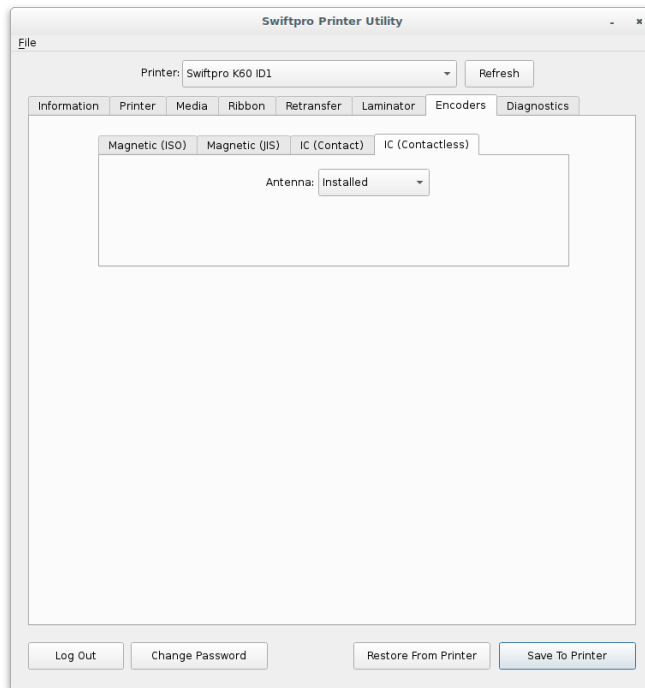
## IC (Contact)



**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)



The screenshot shows the 'Swiftpro Printer Utility' window with the 'Printer' dropdown set to 'Swiftpro K60 ID1'. The 'Diagnostics' tab is selected, and the 'IC (Contactless)' sub-tab is active. The 'Antenna' dropdown is set to 'Installed'. The window includes a 'File' menu, a 'Refresh' button, and a bottom bar with 'Log Out', 'Change Password', 'Restore From Printer', and 'Save To Printer' buttons.

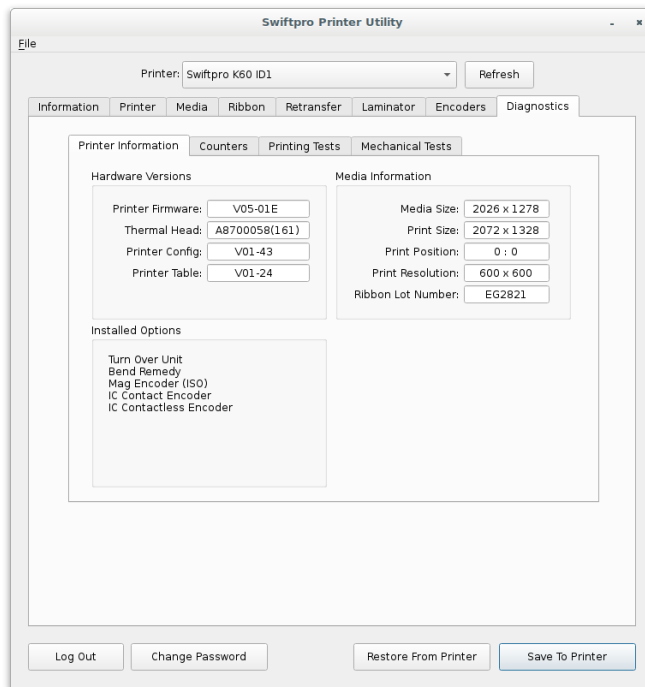
Printer:	Swiftpro K60 ID1	Refresh
Information Printer Media Ribbon Retransfer Laminator Encoders Diagnostics		
Magnetic (ISO) Magnetic (JIS) IC (Contact) IC (Contactless)		
Antenna: Installed		
Log Out Change Password Restore From Printer Save To Printer		

**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. The 'Printer Information' sub-tab is active, displaying hardware and media information. The 'Hardware Versions' section includes fields for Printer Firmware (V05-01E), Thermal Head (A8700058(161)), Printer Config (V01-43), and Printer Table (V01-24). The 'Media Information' section includes fields for Media Size (2026 x 1278), Print Size (2072 x 1328), Print Position (0 : 0), Print Resolution (600 x 600), and Ribbon Lot Number (EG2821). The 'Installed Options' section lists Turn Over Unit, Bend Remedy, Mag Encoder (ISO), IC Contact Encoder, and IC Contactless Encoder. The window includes a 'File' menu, a 'Refresh' button, and a bottom bar with 'Log Out', 'Change Password', 'Restore From Printer', and 'Save To Printer' buttons.

Printer:	Swiftpro K60 ID1	Refresh
Information Printer Media Ribbon Retransfer Laminator Encoders Diagnostics		
Printer Information Counters Printing Tests Mechanical Tests		
Hardware Versions		
Printer Firmware:	V05-01E	
Thermal Head:	A8700058(161)	
Printer Config:	V01-43	
Printer Table:	V01-24	
Media Information		
Media Size:	2026 x 1278	
Print Size:	2072 x 1328	
Print Position:	0 : 0	
Print Resolution:	600 x 600	
Ribbon Lot Number:	EG2821	
Installed Options		
Turn Over Unit Bend Remedy Mag Encoder (ISO) IC Contact Encoder IC Contactless Encoder		
Log Out Change Password Restore From Printer Save To Printer		

## 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, there's a 'Printer:' dropdown menu set to 'Swiftpro K60 ID1' and a 'Refresh' button. Below this is a tabbed interface with tabs for 'Information', 'Printer', 'Media', 'Ribbon', 'Retransfer', 'Laminator', 'Encoders', and 'Diagnostics'. The 'Printer' tab is selected, and within it, the 'Counters' sub-tab is active. The 'Counters' section contains several data fields and buttons:

	Total	Since Reset	Since Cleaning	
Print Count:	576	166	576	Reset
Error Count:	55			
Head Count:	3073			

	Total	Since Reset	
Retransfer Heat Roller Power On Time:	20:15:00	20:15:00	Reset
Bend Remedy Heat Roller Power On Time:	0:10:00	0:00:00	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.

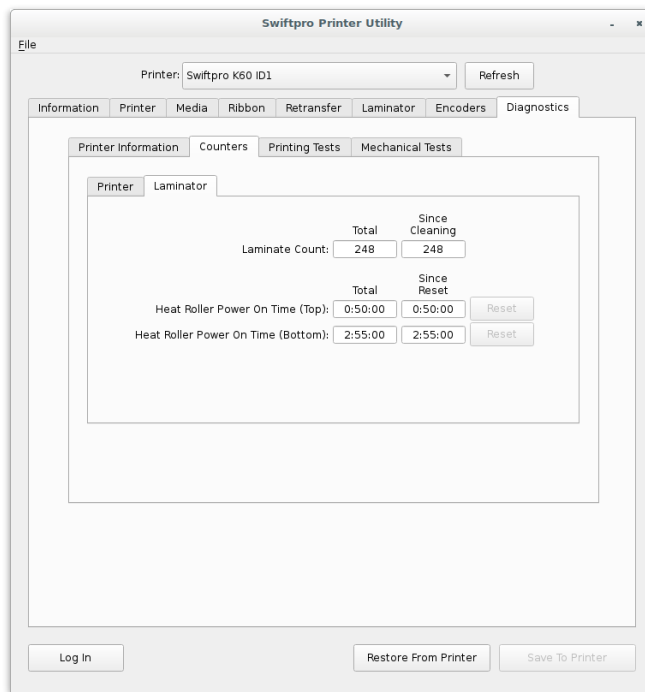
**Head Count.** Displays the number of ink panels printed for the thermal head.

**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.

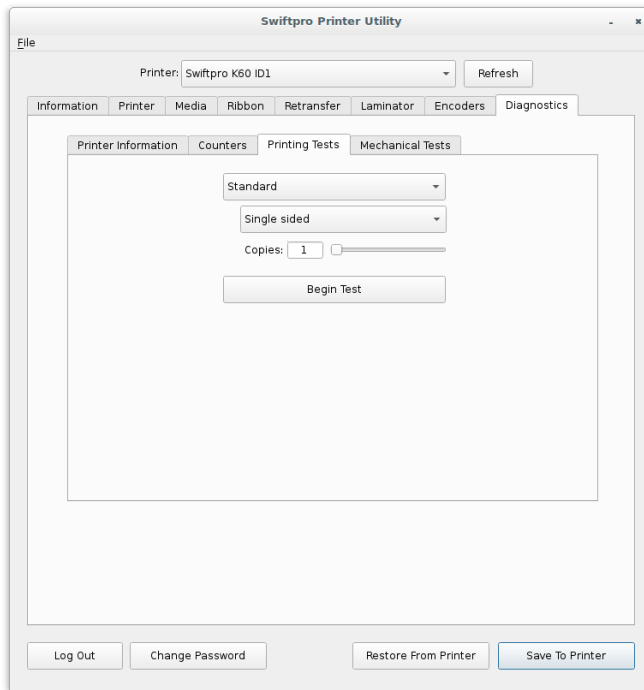


**Laminate Count.** Displays the number of laminations performed (Total and Since Cleaning).

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

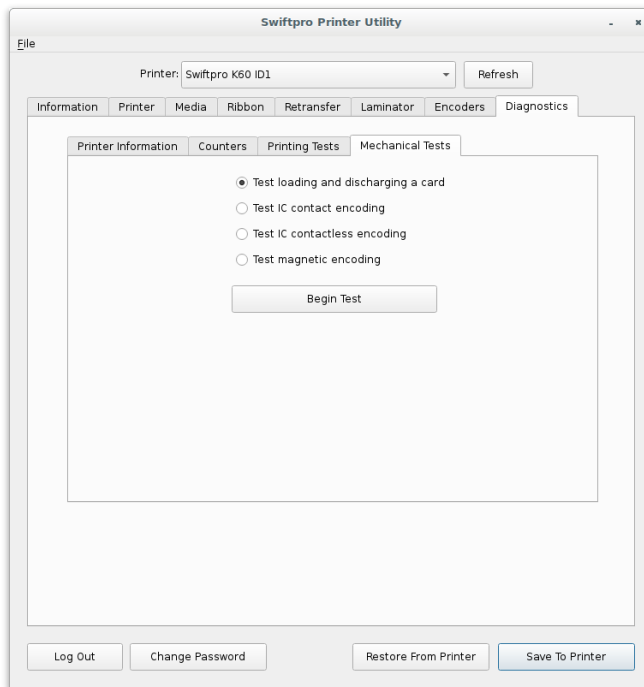
## Printing Tests

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

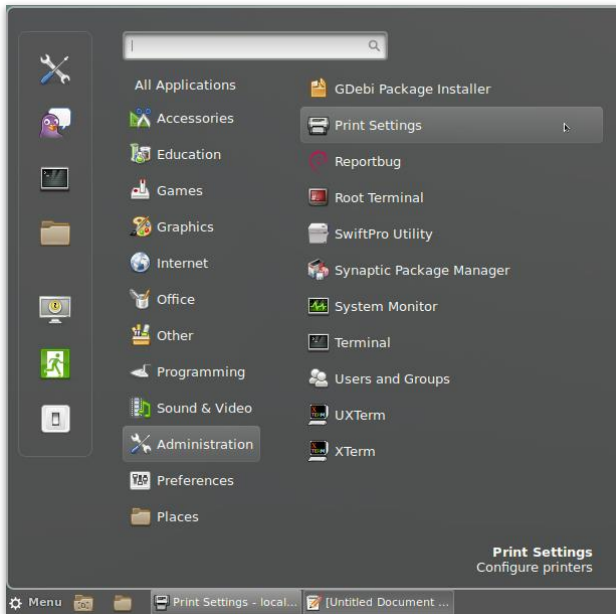
The printer's mechanical functionality can be tested via the Mechanical Tests page. Select the desired test and click Begin Test.



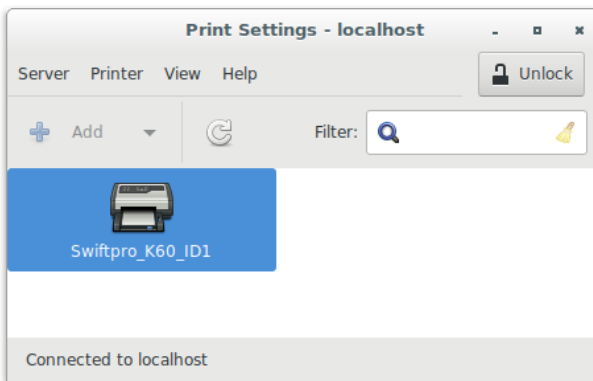
## Monitor Print Status

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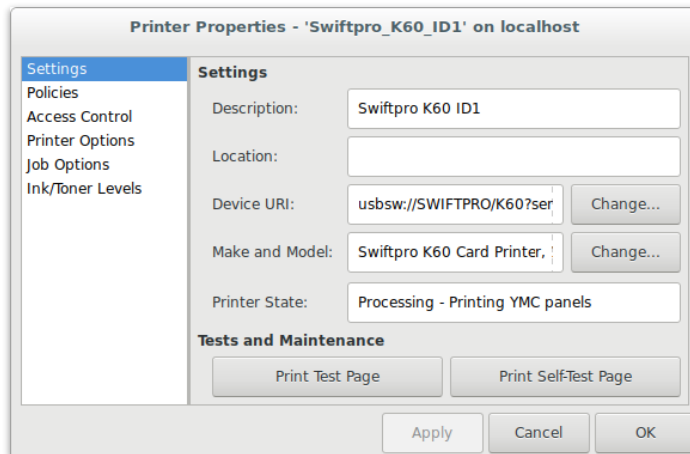
The Swiftpro driver will update status messages throughout the printing process which will be displayed in the Print Settings utility.



Print Settings will display an icon for each installed printer. Double-click the Swiftpro printer to view its settings.



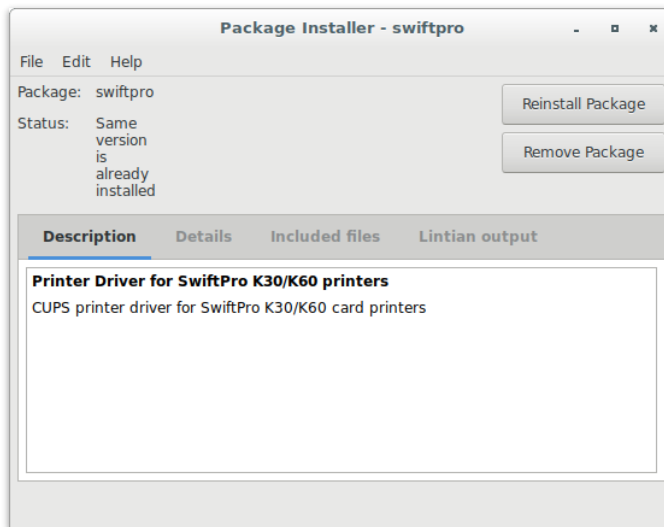
Highlight the Settings menu option and the current printer state will be displayed in the Printer State box.



## Uninstall Printer Driver

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The Swiftpro printer driver can be removed by double-clicking the original .deb setup package. Click Remove Package to uninstall the driver.



## Uninstall from Terminal

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The printer driver can also be uninstalled using Debian's `dpkg` command line program using the following command:

```
sudo dpkg --purge swiftpro
```