

Screen-Print RIP for Solid and Halftone Separations.

MICROSOFT WINDOWS

APPLE OS

.....

Ruby Version

.....

AccuRIPTM

RUBY

SOFTWARE

User-Guide



©2019 Freehand Graphics, Inc.

Freehand Graphics, Adobe, and Corel provide critical software solutions screen-printers trust to efficiently run their art and pre-press departments.

AccuRIP Software by Freehand Graphics is the leading industry RIP for producing FILMs from an Canon Inkjet (solids and halftones).

Welcome to the superior AccuRIP Ruby™ user experience.

Ease-of-use and high-quality film production is what you'll experience working with AccuRIP Software. It's a fast-paced world of changing technology - let AccuRIP Software and Freehand Graphics be the stability you count on.

Freehand has delivered to screen-printers a high-density film printing software called Ruby.

HOT TIP:

Online is where you will find all the information you need to succeed. Have a question? Need advice or support? Use the resource that is updated and accessible ONLINE 24/7...

www.solutionsforscreenprinters.com

Use other Freehand software and solutions to enhance your pre-press experience and improve your print results: All Black Ink™ feature driven solutions like Dmax™ Dye Ink (pre-filled and refillable), The Ditto Inkjet Film Feeder™, Spot Process Separation Studio 4™, DarkStar Film™, Amaze-Ink™ Clog Preventer/Buster

AccuRIP Ruby Software: expertly engineered by screen-printers for screen-printers.

www.solutionsforscreenprinters.com

Go online for up-to-date information, installers, user account log-in access, articles, videos, support options, and much more!

Introduction and Welcome	2
Compatibility, Supported Printers and Operating Systems	4
AccuRIP Installers / Serial Numbers / User Interface News	5
What's NEW in AccuRIP Ruby / Features	6
Droplet Weight Density Test Print, Emulsion, Mesh, Exposure	8
AccuRIP Serial Numbers, License Transfer and Security	9
Drivers / Installation / Configure Wizard	10
Configuration Window (Image)	11
TAB 1: Configure Printer, Detected and Supported Printers, View All Printers	12
Media Size and Type / Ink Setup	13
Ink Coverage / Printer Setup	14
TAB 2: Configuration Window (Image)	15
Lock Screens, Angle, Frequency	16
FM Screening	17
Dot Gain Control	18
AccuRIP Ruby Menus	19
File Output with AccuRIP - Quick Tour	24
Contact Information	26

AccuRIP Ruby Compatibility Information

AccuRIP Software™ is a Microsoft® Windows™ and Apple® Operating System RIP software expertly engineered to exceed the special requirements of the screen-printer using an inkjet printer to produce top-quality, high-density black film positives from graphics files to an Canon inkjet. Dozens of printers are supported; go online to view a current list.

XXX

MUST READ:

A stable Internet connection on the computer where AccuRIP Ruby is installed is required.

Users without internet cannot install, register, transfer their License or receive FREE Updates.

A Genuine Print Driver must be installed, the printer connected, and fully operational.

Supported Operating Systems:



Microsoft OS

Windows 7 through Windows 10



Apple OS

Apple El Capitan through Mojave

IMPORTANT OS INFO:

Windows and/or Macintosh Operating System announcements are posted on our website.

Our expert engineers develop updates for new OS releases from Microsoft and Apple - noting that support of a new OS requires time and diligence to ensure a great user experience. To prevent unnecessary downtime do NOT update to a new OS until you get verification of support from all software manufacturers including Freehand.

Supported Canon Printers:

AccuRIP Ruby Software supports the Canon Pixma Pro-100 and is engineered to work in conjunction with Freehand's exclusive Dmax™ Dye Ink Starter Kit.

For an up-to-date list of models visit the website: **www.solutionsforscreenprinters.com**
Select SUPPORTED PRINTERS located under the SUPPORT link option.

AccuRIP Ruby Software Installers • Serial Numbers

www.solutionsforscreenprinters.com

After purchase head to: <https://solutionsforscreenprinters.com/my-account/>

When you purchased directly and successfully through Freehand's web store, you'll locate your Installer and Serial Number under the "My Software Licenses" TAB.

When you purchase from your Reseller enter the REDEMPTION Code provided into the TAB "Enter Redemption Code Provided". Click Apply and you have access to the Installers and Serial Number in your "My Software Licenses" TAB.

As a Ruby user you'll receive a CODE to unlock the All Black Ink™ Feature in the software that controls ink spraying from all slots of the printer. Enter the provided CODE in your My Account. The feature will be unlocked for a full years use. It will also unlock the All Black Ink feature in your Sep Studio 4 license. After the year, your online purchase of any web store products of \$175 or more will provide you another year of All Black Ink™, or you can simply purchase the feature for \$175 - perfect for our international users!

Congratulations on your decision to join the tens of thousands of successful companies around the world that use AccuRIP Software to produce great films from their inkjet or bubble jet printer. Welcome. We encourage you to take a look at our entire product line and contact Freehand or your reseller with any questions.

Purchase a Serial Number License through...

- ***an Authorized Reseller***
- ***Freehand's Web Store***
- ***NEVER from an end-user (not a legal license purchase / not supported)***

User Interface NEWS...

A newly reconfigured User Interface uses less real estate while displaying files in a more efficient manner. File name, processing status and job ID columns have been cleaned up allowing mmore space for long file names while keeping the overall look clean and easy to view. A Title bar displays software current version and build. A new GEAR icon has been added to the tool bar.

NEW Features...

Freehand software unlike other developers takes the important task of print head maintenance head on! Clicking the GEAR icon opens a Window to the Printer Maintenance Features: Nozzle Check Cleaning, Deep Cleaning, and scheduling unattended maintenance prints to keep your printer ready to print at all times. These time saving and printer maintenance features placed in an easy access location removes the need to search for manufacturer printer driver options hidden under multiple menu selections and windows.

Nozzle Check: print a complete set of test patterns to PAPER for all nozzles on the print head.

Cleaning: runs a lower level cleaning process to clear mildly clogged nozzles.

Deep Cleaning: runs a strong level of cleaning to clear the more stubborn clogs.

Canon printers DO NOT use a lot of ink during cleaning processes, however if after six or more cleanings without the desired result it is recommended to use Freehand's Amaze-Ink Head Cleaning Fluid. Canon printers have removable print heads making it incredibly easy to properly and efficiently clean the entire print head without using ink. A gentle soaking of the print head in a shallow bath of Amaze-Ink for 30 minutes or more is advised.

Schedule Maintenance prints a Nozzle Pattern print at specific time and dates setup by the user to prevent or reduce nozzle clogs due to less frequent use. It is recommended to load paper sheets in to the printer during these times. After each schedule setup an alert window will appear on screen reminding you to load sheets of paper.

Features and Benefits

1. Continued Support

AccuRIP Ruby users enjoy Live Agent Support. Operating current versions provide important user benefits over previous (end of life) versions. Expect to be productive everyday, when you do need us we're happy to help.

2. Automatic Printer Detection and Connection

Engineered into AccuRIP Ruby - the intelligence to DETECT and CONNECT. The WIZARD automatically finds installed Print Drivers - an amazing enhancement! In addition, the "View All Printers" feature offers an optional and easy manual configuration setup. Setup is super simple for all level users.

3. Print Setting IQ

PS-IQ remembers your last configured settings for all previously configured printers.

4. WiFi Strong

AccuRIP Ruby takes full advantage of the benefits and convenience of WiFi. You'll appreciate how easy it is to connect to and print with WiFi. Knowing and understanding IP addressing is a thing of the past for AccuRIP.

5. WatchDog Doctor

Automatically detects then adds printer driver(s) to Operating System upon software launch (opening). If your printer driver was removed or deleted inadvertently AccuRIP Ruby will build a new driver automatically based upon the last printer configuration. This is an AMAZING enhancement.

6. Print to any supported USB printer on your network

Automatically detects shared USB printers - even those shared from other computers (LAN). Printers no longer need to be directly connected to an AccuRIP hosting computer, providing a greater level of Admin control. Setup a shared Driver on your network and AccuRIP will auto detect and allow configuration.

7. The Wizard

Double-click AccuRIP Ruby's Installer and the Wizard appears guiding you through initial setup- it takes just a few minutes from start to finish. Plus, any doubts you have about printer connections are gone. Ruby auto detects and connects printers. Now you can access the Wizard at any time, not just at initial setup.

8. Configure Printer and Configure Halftone

Streamlined to a two Tabs Configuration Window, connect to the printer and select your settings such as halftone shape, frequency (line screen), screen angle and more.

9. Quick Menu organizes your workspace and saves valuable time

Consolidated important menu options into one easy to locate, single-click, pop-down menu on the Tool Bar.

10. Settings at a glance

Status Bar, located at the bottom of the User Interface, displays important settings. These are your selected and locked in settings. Never output film with the wrong line screen or shape, because you forgot what settings were in place, or another user sharing AccuRIP made a settings change.

11. Stay up-to-date FREE

AccuRIP Ruby auto checks for version updates. When available simply CLICK to update at no cost.

12. Streamlined Tool Bar for enhanced workflow

Consolidated tools, single toggle icon controllers, and easy access to functions such as PAUSE and DELETE.

13. Easy on the eyes User-Interface. A gem of a software release

Easier on the eyes U.I. reduces eye strain/fatigue.

AccuRIP Ruby™ - a gem of a solution for screen printers

AccuRIP's accuracy, functionality, speed, power, and friendly user interface are unequalled. Work efficiently. Never be slowed by an awkward and repetitive workflow, or faced with confusing options seen with other solutions.

From feature names that screen-printers easily understand, to clean and consolidated windows, and easy access to the tools and features you use, the AccuRIP User Experience is outstanding. Print films without launching AccuRIP. Launch AccuRIP to view the Job Queue, displayed settings, and to use the NEW QUICK MENU.

Remember, AccuRIP is driver-based. This allows you to select the AccuRIP to Canon Driver in the Print Window of any graphics program file you are working in (i.e. Adobe, Corel). Your settings are automatically applied.

There is no simpler workflow than the AccuRIP workflow, and the end result... professional films.

Droplet Weight Density Test Print

The Droplet Weight Density Test Print (DWDTP) is a unique feature of AccuRIP Software designed specifically for screen-printers. Much more than just an option in AccuRIP and a test of ink on film, it is the key to the success of pre-press and ultimately the quality of your press prints. With quality and productivity high, and costs under control, your profitability rises.

What comes between your art file creation and the screen-print press is FILM and SCREEN EXPOSURE.

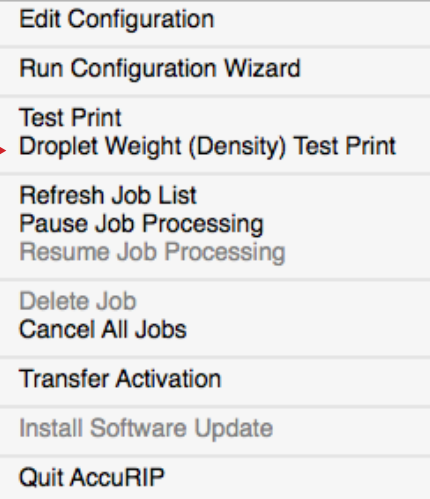
The key to properly exposing emulsion is the control of UV light. UV light is NOT visible to the human eye. Holding up your film and looking at it offers you little information about screen exposure expected results, and whether you are using your consumables efficiently. Most screen-printers do NOT have an expensive device called a Transmission Densitometer to provide UV light readings. AccuRIP's Droplet Weight Density Test Print replaces the need for an expensive device and allows you to confidently produce films for screen exposure.

A Droplet Weight Density Test Print on Film will deliver 15 droplet weights per resolution. Produce a Droplet Weight Test film for each available resolution in the AccuRIP Setup starting at the lowest resolution. Your goal is to achieve great results using the lowest resolution to save ink, time, and money each and every day. A Droplet Weight Test produced should be used to expose a screen, then washed out. Screen exposure is the desired way to select a droplet weight to suit your shops needs.

Expose the emulsioned screen in your screen exposure unit. Determine which droplet weight of the 15 washes out easily and gently, providing the detail you need for the press. Use the tested and proven droplet weight and resolution setting in AccuRIP for your pre-press screen making process. You are also using this opportunity to review the quality and state of your exposure unit, screen coating products, screen coating ability, and exposure time.

Emulsion, Mesh, Exposure Units and More

Understanding how to properly emulsion a screen, selecting the best emulsion, and using and understanding your exposure unit will make you a better screen-printer. If you are not getting the best results, quality is dropping off, your determined screen exposure time is no longer doing the job, the durability of the screens is not satisfactory, or other screen exposure issue exists, consult the manufacturers of these products for info and assistance, or contact your resellers and suppliers for alternative products. Screen exposure is absolutely critical to you success on press.



Serial Numbers, License Transfer, and Security

Serial Numbers provide access to the FULL VERSION of AccuRIP Ruby Software. They are UNIVERSAL - used for both Windows or Apple supported operating systems. User that have upgraded from a previous AccuRIP version will no longer use the previously supplied Serial Number.

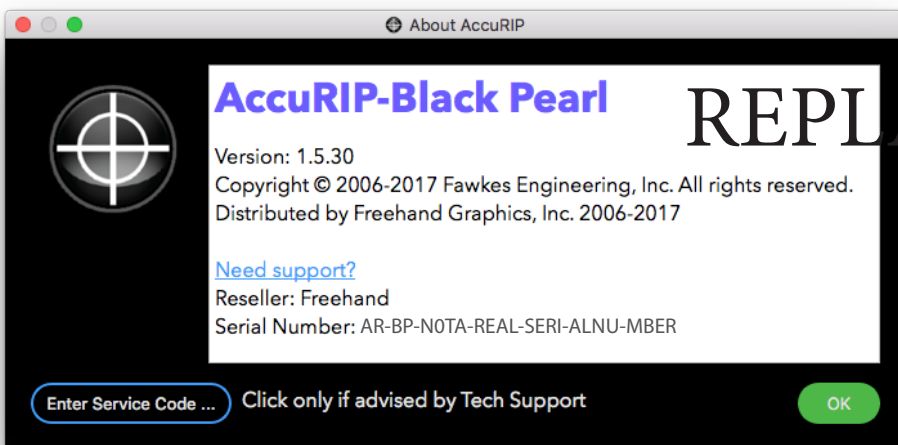
- **Serial Numbers are unique to each each License holder.**
- **Treat Serial Numbers like personal passwords. Keep them secure.**
- **A Serial Number must be entered exactly as it appears. Example: AR-RU-NOTA-REAL-SERI-ALNU-MBER**

Enter your unique Serial Number in the Window that appears during first-time installation using the Wizard. The License allows the Serial Number to be used to install AccuRIP Ruby on one computer. After installation and when you are successfully printing using the AccuRIP to Canon Driver for your supported Canon Inkjet, sharing the AccuRIP Driver to other users across your Local Area Network (LAN) is an option that extends its use to other users at no additional cost. The License can easily be transferred to another computer within the same Licensed company. The ability to TRANSFER is under the LICENSING MENU of AccuRIP when launched (open).

The Serial Number to unlock the All Black Ink™ Software Feature is provided in the Canon Pixma Pro-100 Dmax Ink Kit. You will enter it where prompted during the Wizard Installation.

HOT TIP:

If you receive an error that the Serial Number is already in use, then it has already been used to activate a computer in your environment. You can move a Serial Number from one computer to another within your environment through the ACTIVATION MENU > Transfer Activation.



To view your AccuRIP Ruby Serial Number go to the ABOUT AccuRIP Menu (Apple), and SUPPORT MENU > ABOUT (Windows).

Drivers / Installation / Configure Wizard

Step 1 (Driver):

DOWNLOAD the genuine Canon Driver for the Pixma Pro-100 designated for your OS. The printer must be successfully printing before you begin Installing and using Ruby.

Step 2 (AccuRIP Installer):

Download the AccuRIP Ruby Installer from your My Account to your local computer (i.e. desktop). Do NOT RUN Installer from within the web browser. Double-click to RUN the AccuRIP Ruby Installer Package (Pkg). Follow the on-screen instructions during the installation process.

After successful installation, go to the Programs Folder (Windows), or Application Folder (Mac). Double-click the AccuRIP Ruby Icon (registration target logo). The CONFIGURE WIZARD will launch.

Step 3 (AccuRIP Configure Wizard):

Follow the CONFIGURE WIZARD as it steps you through the fast and easy setup. Done. You are ready to output files using the AccuRIP to Canon Driver.

Access Configuration at any time.

*The two TAB Configuration Window displays your selections in the **Configure Printer** and **Configure Halftone** Tabs. Access CONFIGURATION Window at anytime to change settings, such as connecting to a new Canon model, changing a line screen, or screen angle (see page 11).*

Configuration Window

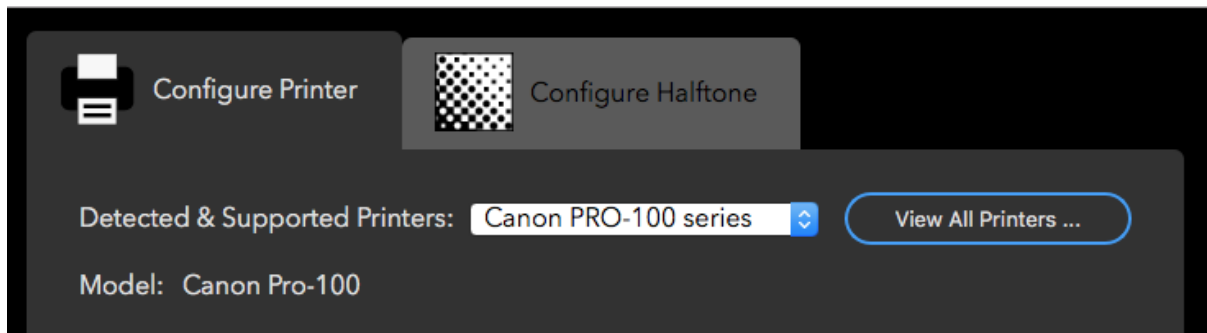
AccuRIP Ruby's convenient two Tab Configuration Window is your setting control center. Access it anytime a setting change is needed. Make sure you **CHECK ON** the All Black Ink™ feature to use with your Dmax™ Inks for the Pixma Pro-100 printer.



LEFT:
AccuRIP Ruby's
Configure Window
with Canon Pro-
100 series selected.

Configuration Options Explained.

TAB 1: Configure Printer



Detected & Supported Printers:

Automatically displays compatible printers installed on or shared to your computer. From the pop-down option list select the Canon Pixma Pro-100. AccuRIP detects and displays ALL Printer Drivers even duplicates, or multiple connection types.

View All Printers:

Displays **ALL** printers installed on or shared to your computer. So why do I need this feature when AccuRIP Ruby Auto Detects? It is unlikely that a supported printer will not automatically be detected. In the rare case that you do have a supported printer properly installed and not detected (possibly due to name changes), use this feature to manually setup and create an AccuRIP Ruby Print Driver. Follow the instruction in the Setup Window.

When you do NOT see your supported printer in the list, contact Live Agent Support:

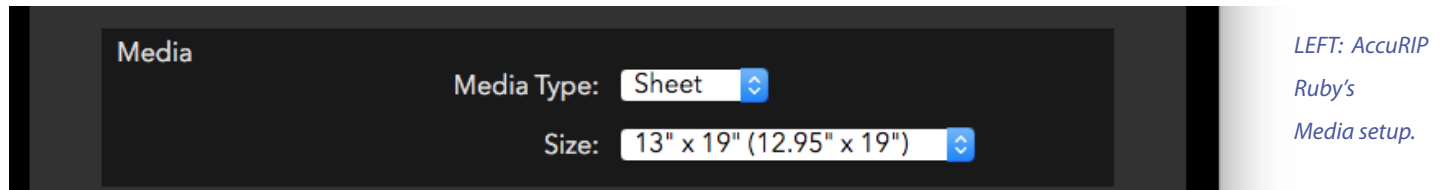
www.solutionsforscreenprinters.com/live-agent-support

Do NOT use the manual setup option without assistance from support.

Media Type and Size:

MEDIA TYPE:

Choose the Media Type (Sheet) used with your printer model.



SIZE:

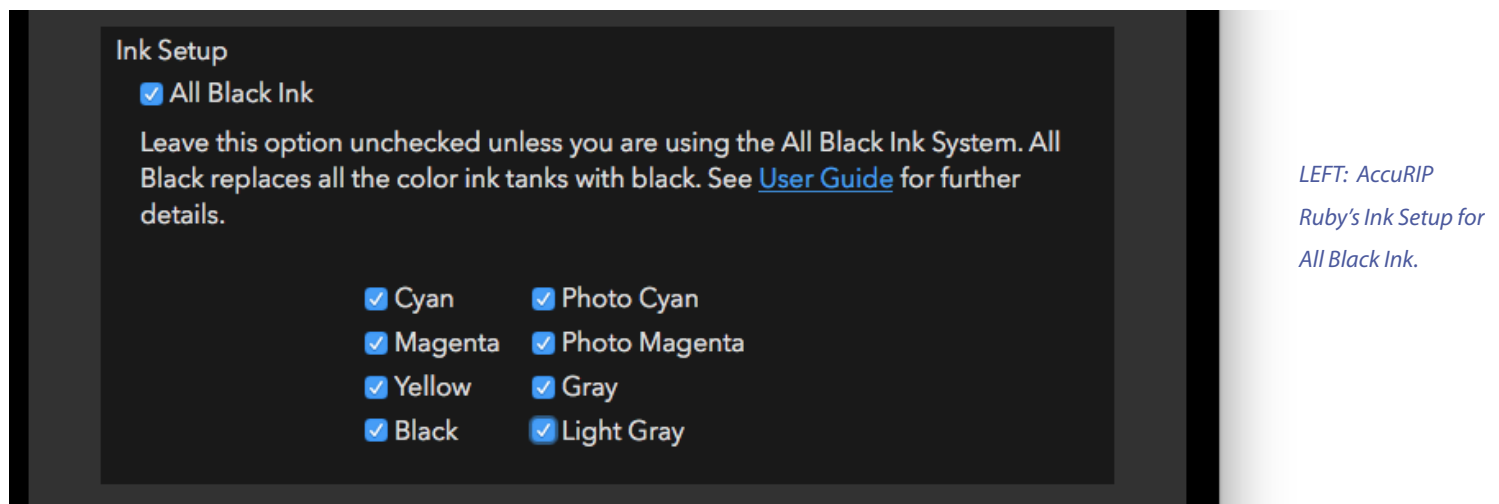
Sheet users select the largest film sheet size to be used. Users routinely use more than one size film sheet, but you do NOT have to change the Sheet size setting each time you load a different size. AccuRIP uses the page size dimensions set in a graphics application print window. Simply match artboard (page size) to the loaded film size to print.

AccuRIP's sheet size only has to match the page size when you wish to take advantage of N-UP Printing (nesting). For N-UP printing go to www.solutionsforscreenprinters.com to view videos and articles.

Ink Setup (All Black Ink Feature):

CHECK this option to turn on the All Black Ink™ feature and ability in AccuRIP Ruby. It must be ON when using Freehand's All Black Ink™ Dmax refillable ink system. When UNCHECKED (off) AccuRIP will use ink from the printer's PHOTO BLACK tank/slot ONLY. By default the All Black feature is OFF.

When CHECKED (on) the window displays ALL ink slot color names for the printer model you selected during setup indicating that ink will be used from all of those checked slots. Note: you can also turn specific slots ON or OFF.



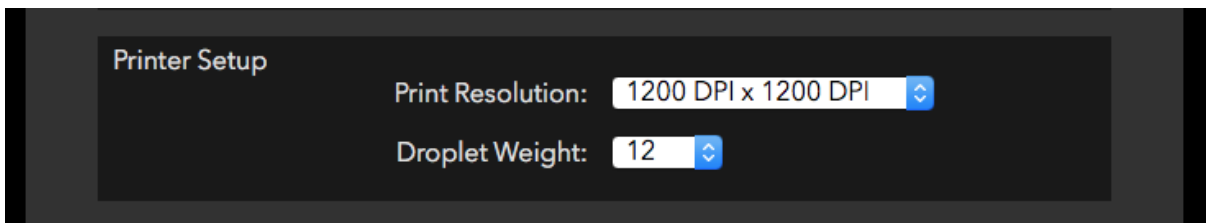
Ink Coverage:

This pop-down menu option is displayed only when the Multi-black feature is CHECKED on. Note: the Multi-black feature is checked on ONLY for users of the All Black Ink™ Dmax system. If you do NOT have all slots with black ink in your printer DO NOT turn this feature on, or you will be printing color ink to your films. The default setting is STANDARD.

The options are LESS, STANDARD, and MORE INK. Standard is the recommended setting. It is a fine tuning feature for the droplet weight feature of AccuRIP when a little more or less is needed within a print resolution.

See page 8 for information about the DROPLET WEIGHT DENSITY TEST PRINT to evaluate/select ink droplet weight.

Printer Setup:



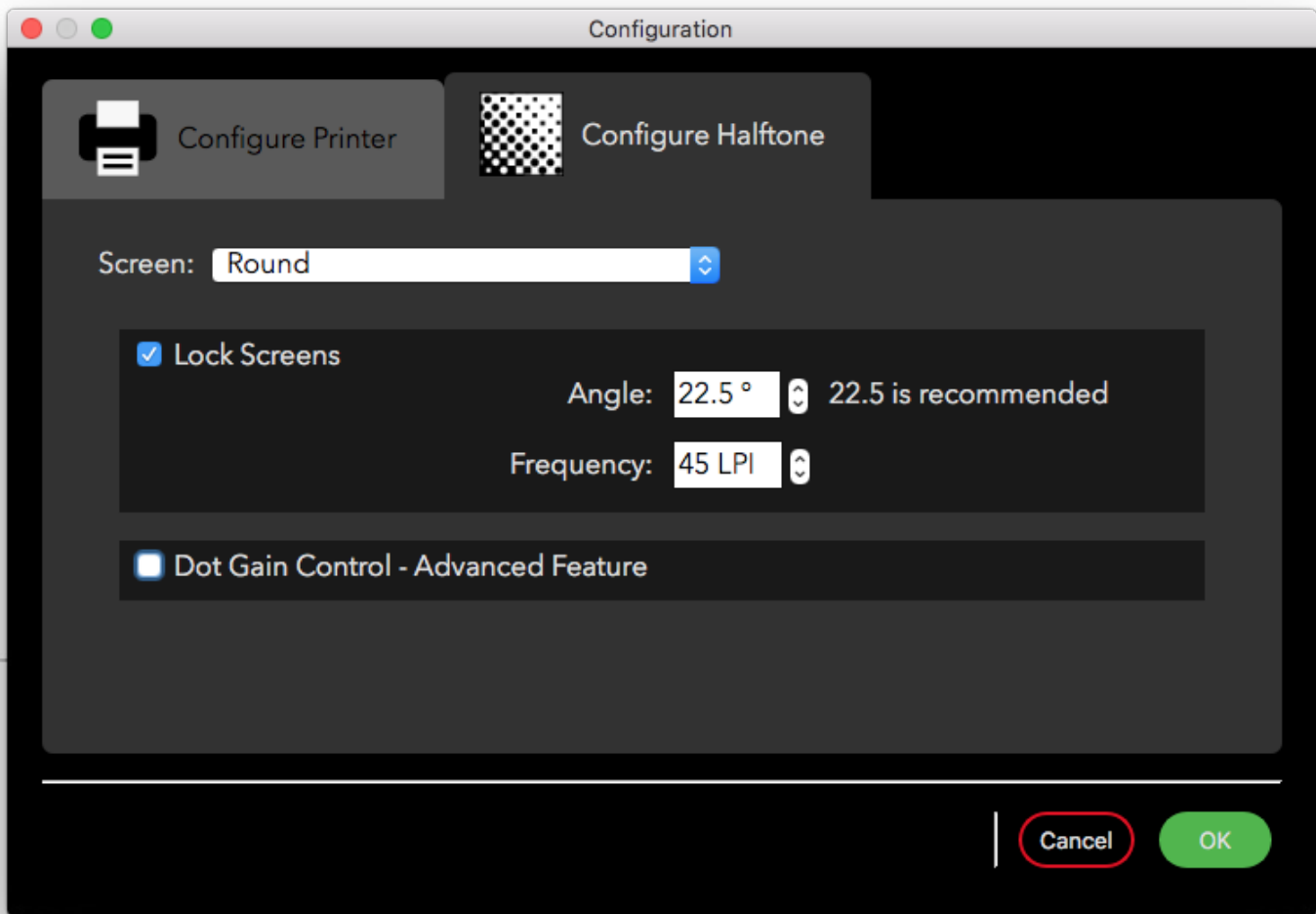
PRINT RESOLUTION:

The pop-down menu displays printer resolution options for the selected printer model in the Configuration Window. Available options vary per model. Higher resolutions print slower and use more ink. Lower resolutions often provide desirable results for screen-printers. Start at the lowest resolution (saves time and ink) and increase the resolution if you are not satisfied with the film output results. Use AccuRIP's DROPLET WEIGHT DENSITY TEST PRINT to determine the best resolution and droplet weight (see below).

DROPLET WEIGHT (Ink):

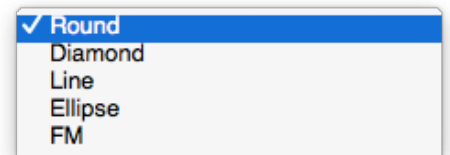
Default setting varies from model to model. AccuRIP's defaults droplet weight is a good starting point. The DROPLET WEIGHT DENSITY TEST PRINT (DWDTP) is under the FILE MENU, and the QUICK MENU. A full explanation of the Droplet Weight Density Test Print is provided (see page 8).

Configuration Window with Configure Halftone Tab displayed.



Screen:

The pop-down menu provides the option to select the SHAPE of the spot (halftone). The available options are ROUND, DIAMOND, LINE, ELLIPSE, and FM. The most popular shapes selected by screen-printers are ellipse and round.



Lock Screens / Angle / Frequency:

AccuRIP Ruby provides two controls for setting the parameters for halftone printing.

1. LOCK SCREENS ON

The default and recommended selection, when ON the control of Halftone settings are with AccuRIP Ruby. The settings selected in this TAB will be applied during output each time the AccuRIP to Canon Driver for your model printer is used to print a file. When there is a need for halftones in the file, they will be printed with the selected settings in AccuRIP (overriding graphics program settings). This is a great feature for screen-printers that have standard halftone settings and mesh counts for their shop. LOCK SCREENS save time and money by preventing errors that happen when the control is with the graphics program and the user forgets to enter the settings (or properly) with each film.

2. LOCK SCREENS OFF

When Lock Screens is off (unchecked) the control of the settings is given to the graphics software you are printing from using the AccuRIP to Canon Driver. Adobe Illustrator and CorelDRAW, for example, provide these options in their Print Windows. With Lock Screens off, address each option for every color on every film being output. This is annoying and time consuming and opens up the opportunity for costly user errors. Lock Screen is strongly advised.

A situation when a user would use AccuRIP with Lock Screens off is when producing multi-angle film output. Although single angle printing remains the standard for the screen-print industry since it delivers the cleanest results even for 4 color (cmyk) process, some users still choose to create multi-angle process color separations. Remember to turn Lock Screens back ON after completing the process.

ANGLE:

The default angle setting is 22.5 degrees. It is mathematically best for screen-printing. Select or change the setting in this feature.

FREQUENCY:

Frequency is the physical SIZE of the halftone. The screen-print industry uses coarser halftones than other print industries. The default setting is 45. You may also be familiar with the term line screen or dot screen or spot screen, but they all refer to halftone SIZE. Selecting the FREQUENCY (Line Screen) must correlate to the SCREEN MESH COUNT you will use when making your press screens. Simple math formulas assist you with your selection. An incorrect selection will deliver poor print results.

The MESH COUNT should be 4 to 5 times the Line Screen.

It is suggested you consult with your mesh manufacturer for advice.

Example: 45 line screen (frequency) X 5 = 225. Select the closest mesh count (equal or higher, never lower) such as a 230 mesh (US measurements).

-or-

The LINE SCREEN should be 1/4 or 1/5th the Mesh Count.

It is suggested you consult with your mesh manufacturer for advice.

Example: 230 mesh divided by 5 = 46. Select 46 as the Frequency. You can round up or down such as 45.

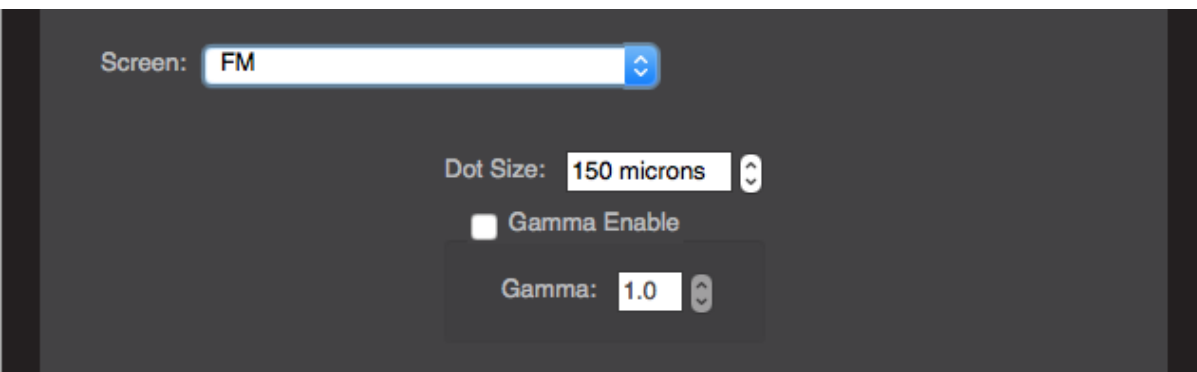
FM SCREENING:

FM Frequency Modulated screening is very different than AM Amplitude Modulated screening (halftone). Requires testing and an advanced understanding of image print production. All shapes are the same size across the screen achieving tonal changes by packing more or less data into a given area. Less data delivers lighter tones while heavily packed areas deliver darker more saturated tones. AM screening varies the geometric shapes based on area tone. AM is a more common selection and more friendly to various printer resolutions. Choosing FM is suggested when printing only an image, not text. FM screening requires the use of squared printer resolutions. For example, 720x720 or 1440x1440 resolutions will produce expected results while non squared resolutions, such as 720x1440 will produce unexpected results. Not all Canon printer models offer a variety of squared resolutions.

Dot Size: Measured in Microns, larger numbers produce larger coarse results, while lower numbers produce finer detail. Testing is required to determine compatible printing mesh sizes to micron selections.

Gamma: Controls the mid gray values across the blend field. Similar to the mid skew of a gradient blend tool in a graphics program. User testing is required.

How to test: Create a gradient blend in your favorite graphics program, make changes to setting and print. Evaluate results and set RIP to desired configuration.



Dot Gain Control:

AccuRIP's Dot Gain Control is an advanced level feature used ONLY with a Transmission Densitometer and an understanding of how to use it properly.

Understanding Dot Gain for Screen-Printing

Don't fear it, control it. The goal - good looking prints. Only some users with high line screen requirements will need to address dot gain through software. When ink meets the garment on-press, and during film output when the ink meets the film media is where you can experience dot gain. There is NO dot gain happening using the RIP. But, your RIP provides opportunity to professionally compensate for it on-press and on film.

Are you missing out on an important feature of AccuRIP, because you do not have a Transmission Densitometer? Absolutely not. AccuRIP Ruby is a RIP expertly engineered for screen-printers using Canon inkets for professional film output. AccuRIP's configuration is accurate, and will meet the strict requirements of most screen-printers.

Dot gain on press? There is no procedure or equipment to measure dot gain on a garment. Look at a print to determine if it is an unacceptable (visual) result. Control it by changing the films to help compensate for the ink spreading on a garment. The film is a tool to help achieve desirable press results.

AccuRIP Ruby Menus and Features Explained

AccuRIP Ruby has just a few Menu items. Most of the most popular menu items are listed under the Quick Menu icon for easy access. See Icons and Windows section to learn more.

AccuRIP Ruby Menu

Choose QUIT to close the program.

Apple users choose ABOUT ACCURIP RUBY to open the About Window displaying the program version and build number as well as copyright information, trial or license status, support link and service code feature (used only by customer support).

Edit Menu

Edit Configuration: opens the COnfiguration Window to change settings for printer setup and halftones.

Run Configuration Wizard: opens the printer driver setup Wizard that walks the user through the process of setting up a NEW printer driver. Wizard is run during installation, but can be used at any time a user needs help setting up a new printer driver.

Test Print: prints a single page to letter size film or larger. Test page contains different values on halftones, a solid area along with text. Can be used to check the quality of printing, or used as a test to dial in exposure times. Test page halftones are printed to the configuration halftone size and angle last set in the Configuration window.

Jobs Menu

Refresh Job List: updates the files printed in the Print Queue.

Pause and Resume Job Processing: stops and starts job processing. User can choose to slide the printer icon toggle to perform the same function.

Delete Job: clears any job(s) currently selected in either the Print Queue or History windows. User can also right click jobs to Delete or Reprocess files. Deleted jobs cannot be undone.

Cancel All Jobs: clears all files processing in the Print Queue Window.

Licensing Menu

Purchase: visible while in trial mode (no Ruby trial available), and brings the user to the purchase web page.

Activate AccuRIP: enter serial number to activate software from a deactivated state.

Deactivate AccuRIP: choose Deactivate when looking to transfer the license to another computer. Available when program is activated.

Activate All Black enter access code to license the All Black Ink feature (typically a one year activation).

Support Menu

User Guide: links to online user guide.

Technical Support: links to online Tech Support Article and Live Agent ticket system.

Secure Agent Login: links to Tech Support Login software. Use only when advised by a supported agent during support hours (M-F) (9 am to 6pm EST).

Install Software Update: available when free updates become available – click to start free update. A blue download arrow will also appear in the main Tool Bar when updates are available.

About AccuRIP: Windows only users choose AccuRIP Ruby to open the About Window displaying the program version and build number as well as copyright information, trial or license status, support link and service code feature (used only by tech support).

Icons / Upper Tool Bar

Trash Can: select any job or number of jobs while in the Print Queue or History then click the Trash Can to delete the files. This process cannot be undone.

Printer Toggle: slide the toggle from left to right to stop the ripcore print serve. Toggle displays Green when ready to process files and Red when stopped.

Alert Icon: yellow alert icon appears upon setting up a new printer. Click the icon to open Freehand's exclusive Droplet Weight Density Test print that quickly helps users dial in their best results after a single print. The Alert Icon remains on screen as a reminder to print the Density page. The icon disappears after printing. Full instructions are printed on the page. Print the Test Page to film.

Blue Free Update Download Arrow: blue arrow appears when free updates become available. Click to start the free update.

Gear Icon: opens the Maintenance Window exposing features for Nozzle Check printing, head cleaning and scheduled maintenance printing.

Quick Menu: located in the upper right hand corner. Click this icon to expose a pop-down menu listing all of the most popular Menu features and functions in one location.

Windows

Print Queue: displays active spooling and processing files. Processing status shows the % of a file as it spools into the RIP. Printing Status displays the % of print data transferring to the printer driver.

Print History: displays previously processed print jobs. Job ID displays the unique ID number of the print job. Keeps track of how many files have been processed overall. The History file holds and displays up to 10 jobs. The set limit prevents memory overload on the computer. Right click a job to reprocess or delete. Deleted files cannot be undone. Reprocessed files retain their Job ID. Green dots next to jobs mark properly processed files sent to the printer driver. Red dots signal a postscript error and failure to print. Triangles to the left of files cascade and display multiple separation data including Print page area dimension.

**option: Window panes can be resized vertically by placing the mouse between windows. The cursor will change to re-sizing icons. Click and drag up or down.*

Status Bar

Located at the bottom of the main UI helpful information is displayed regarding the status of the Ripcore, printer model configuration, current line screen and angle.

Ripcore: displays Ready (green) and Paused (Red) with a Yellow alert icon - controlled by the Printer icon toggle in the upper Tool Bar. Also used to alert users during time of system error that may prevent printing.

USER TIP: during time of printing issues if files do NOT display in the Print Queue switch the Printer icon toggle off then on again. In many cases this resets the ripcore. If this fails to fix the issue, restart the computer and printer. Still having an issue contact Customer Tech Support.

Configuration Window

Access by clicking Quick Menu, or from the File Menu select Edit Configuration. This Window has two Tabs (Configure Printer and Configure Halftone).

Configure Printer: displays all the options for setting up a printer, media and All Black Ink™ control.

Printer Configuration Settings (explained)

(a) Detected & Supported Printers displays all "supported" printers setup with genuine manufacturer (OEM) printer drivers.

(b) Media

- Media Type: choose either Sheet or Roll to match media loaded in printer.*
- Size: displays all available media sizes for a selected printer model. Sheet users select the largest film media to be used which is generally the size media used when nesting separations (N-Up).*

(b) Media

- *Media Type: choose either Sheet or Roll to match media loaded in printer.*
- *Size: displays all available media sizes for a selected printer model. Sheet users select the largest film media to be used which is generally the size media used when nesting separations (N-Up).*

Note: Sheet media only needs to match media size loaded into printer when nesting (N-Up) is desired. Other times Ruby will allow the page size set in the print window to override this setting.

Note: When Roll Media is elected set in inches the width of the installed roll media. Roll media users never have to worry during times of nesting. This setting always matches.

(c) Ink Setup

By default AccuRIP Ruby prints directly from the printers single Photo Black Ink tank.

All Black Ink Feature

AccuRIP's exclusive All Black Ink™ Feature allows users to load Dmax black dye ink into every ink cartridge slot controlling the use of ink from any combination of ink cartridges. It is recommended to always select all ink cartridges. Leaving cartridges unchecked will cause an uneven use of inks.

Offered as optional Licensed feature All Black can be setup for a 14 day trial or activated as a 1 year license. To obtain a 1 year license use the code provided in the Canon Pixma Pro-100 Dmax™ Ink Kit, or contact sales at Freehand.

Check ALL ink tanks or any configuration of ink tanks that match your install of Dmax All Black film making dye ink.

Printer Setup

Printer resolution displays all available print resolutions.

Droplet Weight: adjust the amount of ink during printing. Print the Droplet Weight Density Test print to discover the best setting for supplies as they relate to the exposure process.

View All Printers: this feature is used if the software does not auto detect and setup your printer model. Match available printer to supported printer model. Full instructions are included in this window.

Available Printers: displays ALL printers installed on the computer even non supported printers.

Supported models: displays all printer models supported by the software.

** Alert: choosing a mismatch of printers will created unexpected output results such as garbled postscript code that may use up more media than expected. Best to contact support before attempting the use of the is feature. Support links supplied in the window.*

Configure Halftone

Setup the RIP to print halftones when they apply. Halftone printing results when the data in the file printing requires halftones. Solid data will print solid separations while any color not 100% (spot or process color will produce halftones).

Screen: displays halftone shape styles for AM and FM printing. Round is the default. Choose from these AM (Amplitude Modulate) style halftone shapes, Round, Diamond, Line, Ellipse or switch to FM (Frequency Modulate).

* Alert: FM printing requires the use of squared resolutions to produce proper results. The Canon Pixma Pro 100 supports 2 forms of squared resolution 600x600 and 1200x1200.

LOCK SCREENS: checked ON by default this feature insure that all prints match in a set. Allows the RIP to override any and all settings in a graphic application print window removing lots of redundant work by the user for each color with all prints. Single angle printing is best for screen printers including CMYK prints. All angles the same is called "Flamenco style "; it produces sharper, brighter cleaner images with better color fidelity while handle or eliminating dot gain issues on press. Use of this feature is highly advised

AM options (Amplitude Modulate): AM halftones vary in size based on % of tone in the image. Lower tone values produce smaller halftone spots while higher tone (more dense) areas produce larger spots until the eventually turn solid areas.

Angle: default is 22.5 degree. Sets the angle for all halftone prints. 22.5 degree is proven to be the best optical and production angle for screen printing. Removes issues of moire while screen making and on press. There are other angles that work too, but none are better optically than 22.5 degree.

Frequency: sets the "size" of the halftone printed. Default is 45 line screen which is a very utility frequency for screen printers. Higher numbers produce smaller finer halftones while lower numbers produce larger halftones. Choose the best frequency based on image detail, artistic style as well as other factors such as garment surface and ink viscosity.

FM options (Frequency Modulate): all spots on the film are equal in size. FM archives tone by producing less spots in lower tone areas while packing more spots tighter together in hightone areas. There are good qualities regarding printing when using FM but it does require quite a bit of research and testing to master film production and printing using FM. AM is advised for most users.

Dot Size: Default is 150 microns. Micron =1/1,000,000 of a meter

Gamma Enable: by default is unchecked. Check this box to control the gamma or mid gray value skew. Changes to this setting requires testing by the user to discover/achieve best results.

***offer numbers to give the user an idea of microns to line screens see screen gab saved on desktop or at this website <http://the-print-guide.blogspot.com/2010/04/how-to-calculate-halftone-dot-sizes-in.html> submitted into JIRA the ability auto convert line screens to microns when the user chooses this option. Consult with Andy to get a better definition about the Gamma scale and what users can expect when making changes.

Film Output with AccuRIP - Quick Tour.

Output success has **everything to do with file building in graphics programs, print window choices, ink and film brands, and the health of the hardware.** AccuRIP has everything you need to produce professional films.

Visit www.solutionsforscreenprinters.com for additional resources.

AccuRIP Ruby delivers dark, dense solids, crisp text, clean halftones, smooth gradients, blends, and all other manners of PostScript data.

It starts with the graphic file:

Screen-printers are primarily creating files with Adobe and Corel Software. AccuRIP Ruby Software fits perfectly into the pre-press world of Adobe and Corel users, and works with any PostScript graphics program. Here is how simple it is to print with AccuRIP Ruby...

1. **Build a proper art file.**
2. **Select “separations” (not composite) in the Print Window of your graphics program.**
3. **Select the AccuRIP to Canon Driver as your “printer”.**

What screen-printers making film separations need to know...

Understanding file creation, spot colors vs process colors, and a solid working knowledge of the graphics program PRINT Window (i.e., Adobe, Corel) will save time and prevent user created output errors. AccuRIP Ruby prints the data the way your file is set up. AccuRIP never alters data.

Use the resources provided by your graphics program manufacturers such as Adobe and Corel. Go to the Help Menus of Adobe and Corel to fully understand and operate their software. Posted on our website are also Videos and Articles custom developed for our users for their convenience: www.solutionsforscreenprinters.com

Be mindful to **SIZE** the file's artboard (the page) properly. For example, don't float a 4" x 4" left chest design on a 13" x 19" artboard. You'll waste film and miss out on AccuRIP's automatic nesting feature called N-UP Printing.

Use “true” spot colors for spot color file creation. Users still misunderstand spot vs process. You're not alone, watch our videos on www.solutionsforscreenprinters.com/videos which show Adobe Illustrator and CorelDRAW spot color creation and use. A 100% spot color delivers a solid (not a halftone) when output. When you desire a halftone (tint) then color the spot color any percentage under 100%, or create a blend/gradient. AccuRIP can NOT alter data, but the user can make an error. If it's wrong on the film, the file is wrong. Review all the elements in your art file.

CMYK

If you wish to produce a 4-color (cmyk) separation you can. AccuRIP outputs both spot and process. A process color is made up of percentages of cyan, magenta, yellow and black.

When printing files from AccuRIP, select Separation (Corel) or Separations host-based (Adobe) and NEVER Composite from within the Print Window. Graphic program Print Windows vary, even within versions so know your well.

*Select the **AccuRIP to Canon Driver** as your PRINTER in the Print Window. DO NOT use the Canon Driver.*

Remember: AccuRIP does its job starting at the moment the AccuRIP to Canon Driver sends the file to print and NOT before. All PostScript translations are handled accurately by AccuRIP, so your non-Postscript Canon Inkjet prints like a Postscript printer. PostScript is the specialized language of graphic files.

Top User Errors to Avoid:

The number one user selection ERROR within Adobe Illustrator and CorelDRAW is selecting COMPOSITE in the General TAB of the Print Window. This is an incorrect selection. All files are printed as Separation (Corel), or Separations Host-based (Adobe), even when printing a single color file.

Another user ERROR is selecting just the Canon Driver as their selected PRINTER. You MUST select the AccuRIP to Canon Driver to print with AccuRIP and achieve true PostScript file output.

Users assume the colors on screen that look solid are true spot colors. When a halftone is applied during file output, the file absolutely contains a process (cmyk) color or a tint of a true spot color.

Enjoy the AccuRIP Ruby Experience!

Contact Information

Thank you for reading the AccuRIP Ruby User Guide!

*Freehand Graphics, Inc.
4250 Veterans Memorial Highway
Suite 3040 West Wing
Holbrook, NY 11741
www.solutionsforscreenprinters.com
631-744-4330 PH*

Sales Office Hours: Monday through Friday, 9:00 am to 6:00 pm EST.

*Technical Support is accessed via an online portal: <https://softwareforscreenprinters.com/live-agent-support/>
Live Agent Support is available during normal sales office business hours. Access to online articles and videos in 24/7.*