



# Megarip

we print

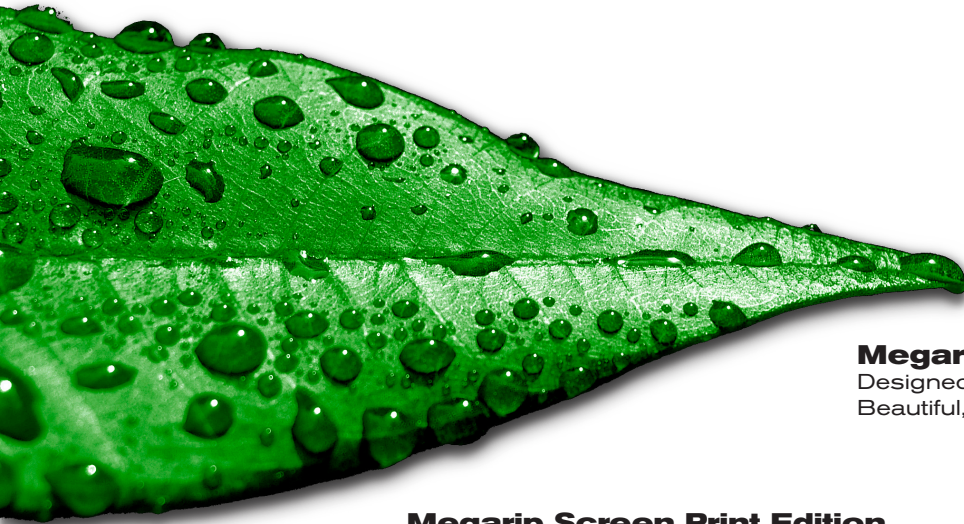
your vision

**Megarip** is a high speed raster image processor (RIP) designed for the digital photographic, exhibition, short-run poster and screen print industries.

Built around a **cutting edge colour management system**, it includes features and applications created for photographers, design professionals and users of large format inkjet printers.

There's a Megarip edition suited to any production environment, each capable of accepting a select range of the following file formats:

TIFF, JPEG, PNG, Scitex CT, Serendipity Blackmagic Image plus composite Postscript (Level 3) - PS, EPS and PDF.



### **Megarip Raster Edition**

Designed for **professional photographers** with unlimited vision. Beautiful, colour managed prints output to large format inkjet printers.

### **Megarip Screen Print Edition**

Designed for the **screen printing industry**.

Total access to colour management features with full colour screen previews of CMYK plates, but with exclusively separated black plate output.

### **Megarip Pro**

Perfect for **design studios**, the short-run poster market, or for producing eye-catching exhibition material. Megarip Pro has all the features of the other editions and **accepts all supported file formats**.

Megarip Pro is the total solution for turning files into prints - big and small.

Versions are available for any budget, each made to seamlessly fit into your workflow and fulfil all your output needs.

Megarip, we print your vision.





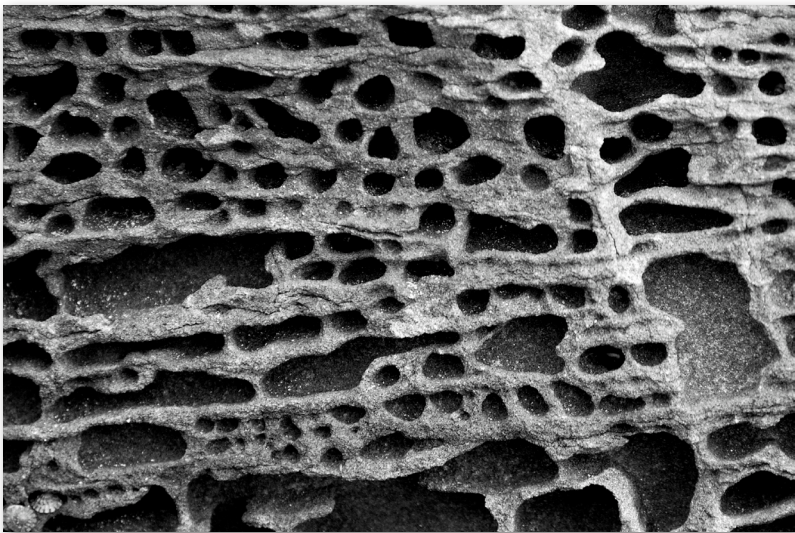
## Colour Management System

Professional photographers, design studios and screen printers should have access to the latest in colour management technology.

That's why Megarip is built on the same **full 16-bit engine** that powers Serendipity Software's world class Blackmagic and Veripress proofing systems.

The colour management system is **ICC v4.2 compliant**, using tools like paper profiling and a selection of advanced ink limiting and linearisation algorithms to ensure your images are committed to paper, vinyl, or canvas, exactly as you envision them.

**16-bit colour control** faithfully reproduces vivid, realistic landscapes and subtle flesh tones. **Sophisticated grey balancing** maintains all the nuance and drama of black-and-white images providing blacker blacks and whiter whites.



## 16-Bit From Pixel to Paper

Megarip's engine performs all calculations and processing in 16-bit rather than the customary 8-bit - from imaging and colour management, through to scaling, screening and rendering.

Photographers working with RAW-sourced image files and designers manipulating those files know that 16-bit processing provides **over 250 times the colour depth** of 8-bit processing.

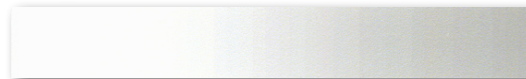
A 16-bit engine gives Megarip **finer colour control** and allows it to calculate the differences between black and white, light and dark, with far greater accuracy. The result - **high precision image reproduction**, smoother transitions into highlight and shadows, and elimination of visual banding in gradients and vignettes.

This **improved render quality** means images print the way they are designed; that photographs print with all colour, depth, tonality and realism.

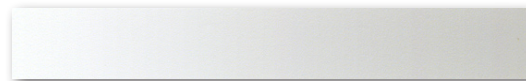


**Black Point Compensation** ensures the full dynamic colour range of your photographs and images are correctly converted to your printer's gamut and that prints maintain all the fine shadow detail of their source material.

**Megarip** is about data integrity and colour fidelity.



8-bit Processing



16-bit Processing



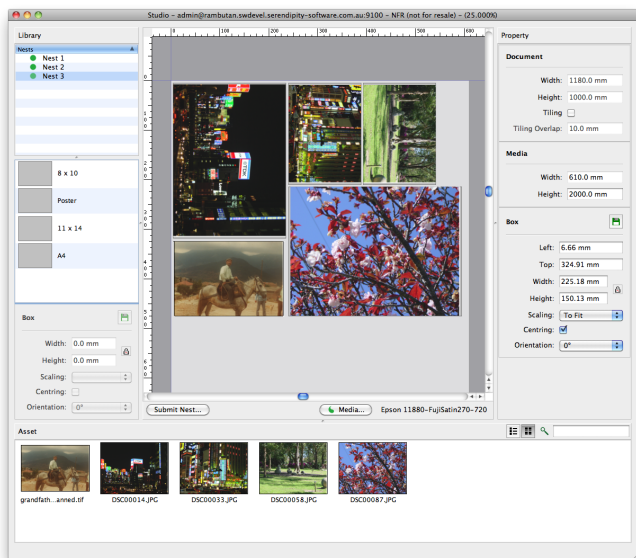


## Nesting

Efficient use of media resources has a direct effect on a business' bottom-line. Megarip allows users to make the most of available print media with its Nesting feature.

Using automatic nesting, print queues are set to **collect, intelligently arrange and auto-rotate incoming jobs** to best use the space available on your print media, **minimising waste**.

Nesting can be configured according to percentage of sheet coverage, number of jobs, minimum or maximum media length, idle wait time, or it can be initiated manually at any time.



The **Studio** application allows images to be **nested manually**. Jobs are submitted to a queue, waiting to be printed. A **visual interface** enables the jobs to be placed and arranged on a defined media space.

**Positioning jobs** is as easy as a drag and drop. Images can be spun, sized and shuffled around. Users can even create and store libraries of standard nesting templates into which images can be placed.

When the layout is ready, the nest is sent to be **printed exactly as it appears on screen**.

## Grey Balancing

Neutral grey balance has long been a goal in printing. Creating grey tones without any colour cast using a CMYK (or simulated RGB) printer ink set is not a simple task. Until now, this has been a task left to ICC profiles, with varying results, depending on printing conditions.

Recently developed, Megarip's linearisation algorithms are **designed specifically to balance your printers CMY or RGB grey output**, while bringing its ink channels to a linear state. Essentially, this means your printer output is grey balanced before it hits the output ICC profile.

Megarip does the heavy lifting before creating your ICC profile, allowing the profiling software to fine-tune your grey output with greater accuracy. The result - **optimal grey balanced prints**.





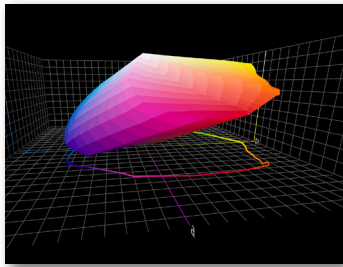
## Total Printer Control

Megarip uses a **paper profiling system** that individually characterises print media based on colourspace, output resolution, printer ink set and the paper being used.

Users can assess and select which dots will be fired by the printhead for each ink channel, choose from a number of **intelligent ink limiting** algorithms, and linearise a printer based on a customisable set of gradation curve points.

Paper profiling gets the most out of your printer's available gamut, allowing for **accurate reproduction of wide-gamut photographic images** and Pantone colours used by popular desktop design packages.

Control of the printhead and ink limiting also means a paper profile can be **optimised to use the least amount of ink** to achieve the colour densities required - an important factor for businesses using a lot of ink, but want to keep operating costs down.

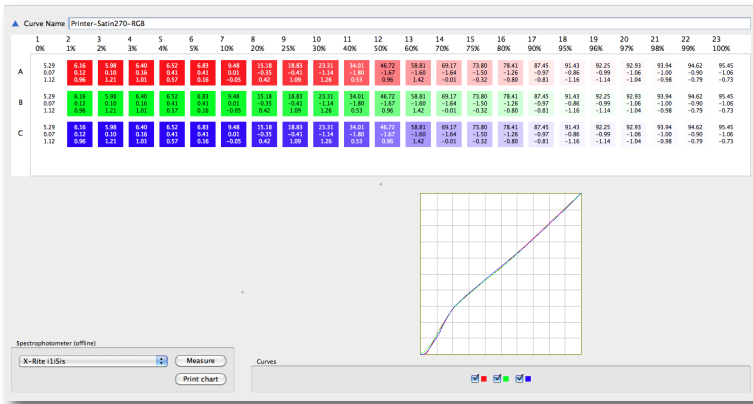


You may be thinking paper profiling sounds great in theory, but where to start? Serendipity has done the work for you...

## Plug and Print

The Serendipity Software website has **pre-configured, downloadable Media** for a number of popular medium and large-format inkjet printers, resolutions and paper combinations.

Load them into Megarip, linearise your printer and you're ready to print!



## RGB Support

For photographers concerned with data integrity and image fidelity, Megarip allows files to be rendered in RGB using industry standard ICC profiles and rendering intents.

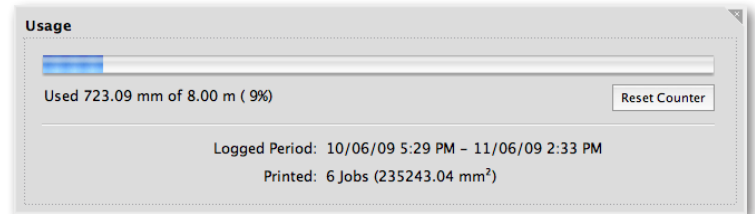
Megarip also supports **RGB print modes** for supported RGB-enabled printers. Media configurations use RGB output ICC profiles and custom **grey-balance focused linearisation**.

## Media Control & Tracking

Megarip's media tracking feature means never having to guess how much paper is left on the roll.

Media configurations include the option to define sheet size and quantity or paper roll width and length, then **track** both the total area of **jobs printed** and the amount of **media used**.

If your business uses **multiple paper types** for printing jobs, Megarip allows you to assign a Media paper type to a printer so it **only prints jobs for that paper**. Any other jobs submitted are processed and placed in a holding queue until you've changed the paper and re-assigned the print media, at which point all **jobs held for the new paper** will automatically start printing.



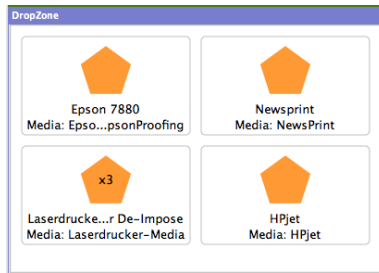
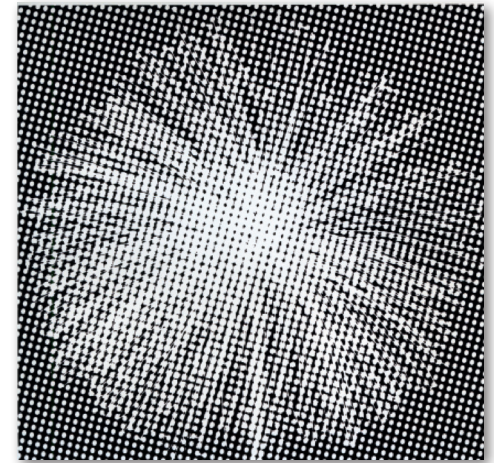
## Screen Printing

Megarip features a screen print mode, designed for **printing film separations** with an inkjet printer.

Files submitted for processing are **separated into individual plates**. Each plate is printed as a black separation with halftone dots applied at the colour's respective screen angle.

Users have the option of combining two or more overlaid inks for each plate to increase the density or **alter the hue of the output film separations**.

Screen frequency, dot shape and screening angles can be defined and plates printed using standard halftone screening, or Megarip's **SuperCell mode**, which produces **better dot shape** and higher quality output.



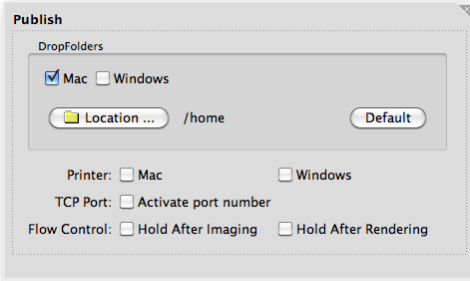
## Submitting Images & DropSpots

Files can be submitted to Megarip using the Submit File menu option or Submit hotkey, but there are a number of other ways to submit images, suited to different workflows.

Megarip can be set to continually poll DropFolders assigned to particular print configurations. Any **files placed into a DropFolder are automatically processed** and printed.

Media and print configurations can be set up as standard Windows or Mac OS X printer destinations. Simply **print from your desktop design application** and files are submitted for printing through Megarip.

For those who like to keep it simple, set up a DropZone with multiple DropSpots in your Megarip user interface. **Drag and drop** a file onto a DropSpot **for instant output** to a defined media configuration and printer.

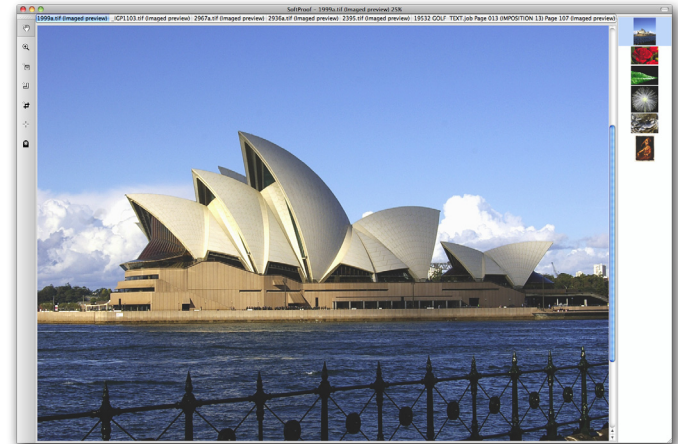


## Render Effects

Megarip features a range of rendering effects that can be applied to a job.

These effects include mirroring and rotation, intelligent image fitting and scaling, cropmarks and borders, tiling for large poster images, and unsharp masking.

Watermarks can be applied to images to protect your copyright, or your company logo can be placed anywhere around a job.



## SoftProof

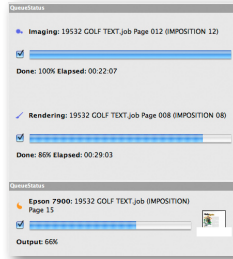
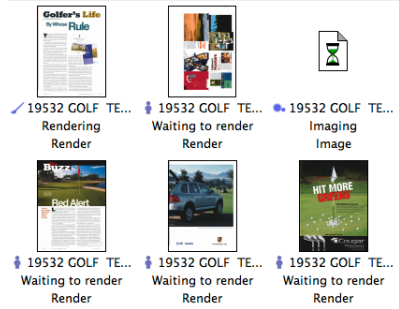
The SoftProof application uses ICC colour management of the monitor to **display colour accurate previews** at full output resolution, before committing to print.

## Unlimited Printers

Megarip supports all major brands of inkjet printers.

Printer drivers are licensed on a per manufacturer basis. A driver suite of choice comes included with Megarip and allows for **output to any supported printer model** made by the selected manufacturer. Extra printer licenses are available separately.

In addition, Megarip can **run as many local or remote printers** as are available on your network. If your business uses a preferred brand of printer, the software will install, ready to run all of them!



SALAK	19532 GOLF TEXT Jo...012 (IMPOSITION 12)	19532 GOLF TEXT Job Page 008 (IMPOSITION 08)
SALAK	19532 GOLF TEXT Jo...013 (IMPOSITION 13)	19532 GOLF TEXT Job Page 007 (IMPOSITION 07)
SALAK	19532 GOLF TEXT Jo...015 (IMPOSITION 15)	19532 GOLF TEXT Job Page 009 (IMPOSITION 09)
SALAK	19532 GOLF TEXT Jo...004 (IMPOSITION 04)	19532 GOLF TEXT Job Page 006 (IMPOSITION 06)
localhost	19532 GOLF TEXT Jo...002 (IMPOSITION 02)	19532 GOLF TEXT Job P...(IMPOSITION 02) Page 5
localhost	19532 GOLF TEXT Jo...003 (IMPOSITION 03)	19532 GOLF TEXT Job P...(IMPOSITION 02) Page 4

## Multi-Platform Enabled

At Serendipity Software, we know that different studios and print environments need different computer, operating system and network solutions.

Megarip is made to fit into any workflow and runs on any combination of **Linux, Windows or Intel-based Mac OS X** systems, straight out of the box.

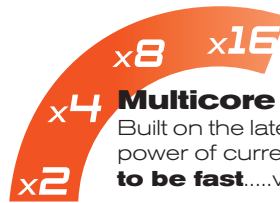


## Load Balancing

If your studio or site has multiple printers, Megarip can keep all of them **printing continuously and efficiently**.

The Server tracks the number of jobs assigned to each output device, their total print area, progress status and print time. Using load balancing, print queues can be grouped and incoming jobs **automatically allocated to the printer** able to print them first.

The same function can also assign a job to be **output simultaneously by all available printers**, without the need to resubmit - perfect for short-run poster work.



## Multicore Processing

Built on the latest code and taking full advantage of the increasing power of current and future multi-core CPUs, **Megarip is made to be fast.....very fast.**

Integral **multi-core CPU support** allows multiple jobs to be processed simultaneously, while **multi-threading** ensures all CPU cores are hard at work, even on single jobs.

Megarip has the fastest imaging and rendering times of any RIP on the market. Saving on processing time means more time printing.

**Serendipity**  
software

**[www.serendipity-software.com.au](http://www.serendipity-software.com.au)**

Copyright © 2009 Serendipity Software Pty Ltd  
Photographic content copyright © A. L'Estrelle. All Rights Reserved.