

SYSTEM REQUIREMENTS:

- **Operating system:** Windows XP, 2000, 2003, Vista Business
- **CPU:** SSE instruction set needed (at least Pentium III or equivalent),
- **Memory:** min. 1 GB, recommended 1 GB
- **HDD:** at least 20 GB free space.

ARCHITECTURE:

- **Flexibility:** StudioRIP components can be installed in various configurations (on a single computer or distributed in the network),
- **Single interface:** all the StudioRIP components are connected to and managed from the same interface (the StudioRIP Client application),
- **Simultaneous operation:** several Client applications can send and manage jobs simultaneously.
- **Integrated workflow:** many workflow tasks are integrated into a single interface (such as trapping, proofing, imposition, ink duct control etc.).

POSTSCRIPT/PDF ENGINE:

- **PostScript/PDF interpreter:** Ghostscript 8.53,
- **Memory management:** proprietary StudioRIP object list technology,
- **Halftoning:** high speed MMX-based proprietary StudioRIP technology,
- **Trapping:** high speed raster based proprietary StudioRIP technology.

HALFTONING:

- **Technology:** supercell based,
- **Rosette consistency:** infinite (v3.0), typically one metre (v2.x),
- **Halftone quality:** patterning on individual colors are filtered out by a proprietary StudioRIP technology,
- **Colour depth:** 4096 shades of grey guaranteed on any lpi/dpi combination,
- **Colour precision:** a low-pass filtering system smoothes out dot gain spikes, offering perfectly linear behaviour after calibration,
- **Highlight and shadow protection:** adjustable minimum and maximum dot sizes used in conjunction with a stochastic based hybrid technology,
- **Flexo friendly hybrid technology:** the transition from AM to FM is smoothed by stochastically moving the centres of the dots under a certain dot percentage (v3.0),
- **Gravure friendly dot shape:** pincushion dot available.

STOCHASTIC SCREENING:

- **Technology:** second order, supercell based,
- **Dots:** round dots of adjustable size for black and white,
- **Smoothness:** the AM phase is smoothed by a proprietary technology, offering the smoothness of a traditional halftone for individual colours.

ON-SCREEN PREVIEW:

- **Four preview options:** jobs can be examined in separation, composite, imposition and media view,
- **Continuous zoom:** jobs can be previewed on-screen at any magnification, down to pixel level, on any workstation,
- **Visualisation tools:** re-orientation & job measurement tools.
- **Retouch:** unwanted objects can be removed or minor job corrections can be done using the retouch tools.

IMPOSITION:

- **Technology:** post-RIP imposition (works with rasterised pages),
- **Automatic imposition:** built-in or custom imposition styles can be applied on-the-fly or after processing.
- **Imposition styles:** imposition styles can be designed and saved for future use,
- **Manual imposition:** pages and pre-press marks can be manually placed, or automatic impositions can be manually modified,
- **Pre-press marks:** built-in library as well as user defined marks (users can define not just the design of the marks, but also complex placement rules).

PROOFING:

- **Technology:** dot for dot (shows rosette up to 200 lpi), and/or contone output
- **ROOM:** proofs created from the 1-bit files, data integrity guaranteed,
- **Colour accuracy:** contract proof quality. The average ΔE is typically under 2,
- **Progressive proofing:** particularly important for screen printing,
- **Low budget solutions:** using its own micro-weaving solution, on cheap A3+ Epson desktop printers StudioRIP achieves high dot for dot proof quality,
- **Profiling:** based on ICC or target chart measurement,
- **Media saving:** proofing is assisted by the same media saving, previewing and job management environment as the regular jobs.

TRAPPING:

- **Technology:** raster based proprietary StudioRIP technology,
- **High quality shapes:** excellent behaviour in junctions, in the proximity of a third colour, and with slightly different colours.
- **Speed and stability:** due to the fast raster based algorithm, trapping is stable and guarantees a decent speed.
- **Adobe compliant:** auto-choke of blacks, spot colour traps, special ink handling, narrowed/proportional traps, mitred traps, vector to image traps. In v3.0 feathered and anamorphic traps are also available.

FLEXO FEATURES:

- **Angles:** high quality 37.5° based angle sets available,
- **Distortions:** dispro is built in with a dispro calculator.
- **Imposition:** flexo specialised imposition features.
- **Gravure dots:** pincushion dot shape available.
- **Screening:** high quality hybrid screening (from v3.0 smoother AM-FM transition is also available by stochastically moving the dot centres).

SEAMLESS SCREENS:

- **Perfect joins:** Top to bottom and/or side to side, the screens will butt-join perfectly to allow the production of flexo sleeves or rotogravure cylinders.

OTHER FEATURES:

- **Ink duct calculator:** draws diagram or exports CIP3 or CIP4 files; machine styles can be defined.
- **Colour mapping:** similar spot colours such as C, CV and CVC can be automatically combined or, recommended, can be manually combined.
- **Dot gain compensation:** using the dot gain compensation tool, the dot gain can be matched with the ISO standard or other ICC files.
- **JPEG & PDF export:** the preview of the processed job can be saved into JPEG or PDF files.
- **Film saving:** film wastage is minimised by automatic rotation and collection of pages.
- **CTP optimization:** the page placement settings get the image in the right position on the plate or sheet.
- **Automatic internet updates:** StudioRIP checks the internet for updates automatically, and offers the choice of free updates.
- **Multi-lingual:** StudioRIP is designed to work in many languages. The number of available languages is continuously growing.