Specifications

Software Specifications

HQ-510 RIP Compatible Fonts	Type 0 (composite), Type 1, Compact Font Format (CFF/Type 2), Type 3, Type 4, Multiple Master, Type 32, Type 42, CID, TrueType
Input Languages	PostScript Language Level 3/Levels 1 and 2, PDF (up to v1.4, PDF/X), TIFF 6.0, TIFF/IT-P1 (optional), EPS, JPEG, JFIF, GIF
Screening Methods	Harlequin Precision Screening™, Harlequin Dispersed Screening™ (optional), Harlequin Chain Screening™ (optional), Harlequin Micro Screening™ (optional), Error Diffusion Screening (EDS), 2-bit screening, AlphaLogic Screening (optional), CRS (optional), and SPEKTA (optional)
Other Software Options	TrapPro, TrapProLite, ColorPro, impos2000, CIP3 plug-in for PPF output, ProofReady, TIFF/IT-P1 input plug-in, TIFF/IT-P1 output plug-in, RIPnspector, in-RIP OPI, Media Saving

Hardware Specifications

HQ-510PM	Power Macintosh G3/G4 OS 9.x, OS X Memory: 512 MB (recommended) Hard disk: 8 GB or more Output interfaces: PIF, Fast PIF, SCSI
HQ-510PC	Pentium III, IV Windows 2000 Server with Service Pack 2, Windows XP Memory: 512 MB (recommended) Hard disk: 8 GB or more Output interfaces: PIF, Fast PIF, SCSI

SCREEN MEDIA TECHNOLOGY

HQ-510 RIP Version 6.0

Software RIP

Innovation & Reliability

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HQ-510 RIP

The RIP'ing solution that saves you time, money, and energy, while giving you outstanding quality

SCREEN'S LATEST HQ-510 RIP, BASED ON THE POWERFUL HARLEQUIN RIP SCRIPTWORKS INTERPRETER, ENABLES YOUR OUTPUT DEVICES TO ACHIEVE THE HIGHEST POSSIBLE LEVEL OF IMAGE QUALITY. IT FEATURES ALL THE ADVANCES OF POSTSCRIPT 3, AS WELL AS THE SPEED, RELIABILITY, AND QUALITY REQUIRED TO MATCH THE PERFORMANCE OF SCREEN'S FASTEST RECORDERS, INCLUDING THE ADVANCED PLATERITE SERIES OF PLATESETTERS AND THE ACCLAIMED TANTO AND KATANA IMAGESETTERS.

RIP'ing solution

Choose your system

The HQ-510 RIP is supported by a wide range of flexible options that can be used with the RIP to make a system that suits the work you do and the way you do it. Several options enhance the RIP's functionality, including specialized colour management, screening, trapping, and TIFF/IT-P1 input and output. Purchase only the options you need, when you need them.

Choose your platform

Version 6.0 of the HQ-510 RIP can operate on Windows or Power Macintosh systems. It is compatible with Windows 2000, Windows XP, Mac OS 9.x, and Mac OS X.

This version boasts several new features, including:

- The new TrapPro and TrapProLite trapping solutions, which replace TrapWorks.
- The new ColorPro comprehensive colour management system, which replaces the HIPP, HCMS, HFCS, and HCPS HQ RIP colour solutions.
- PDF 1.4 support.
- PDF/X-1a and PDF/X-3:2002 support.
- New HEDS1 and HEDS2 plug-ins.
- USB dongle support.

Features include:

- Input formats: PostScript Levels 1 to 3, PDF up to 1.4, PDF/X-1a, PDF/X-3:2002, EPS, TIFF 6.0, JPEG, JFIF, GIF, and TIFF/IT-P1. Option available to ouput PostScript and PDF files as TIFF/IT-P1.
- Screening: Equipped with Harlequin Precision Screening (HPS), which delivers smooth gradations and a remarkable level of fine detail. Optional SPEKTA, CRS, AlphaLogic Screening, Harlequin Chain Screening, Harlequin Dispersed Screening, and Harlequin Micro Screening available.
- ICC profile support: Automatic use of ICC profiles embedded in EPS or PostScript files makes reliable, consistent colour reproduction easier.
- /DeviceN(HiFi) colour: Allows up to 255 separations and almost any number of colours to be processed and printed correctly from virtually any colour system.
- PostScript 3 Idiom Recognition: Allows automatic detection and correction, within PostScript 3 specifications, of any PostScript file with code from a previous PostScript level.
- PDF support: Accepts up to PDF 1.4, PDF/X-1a, and PDF/X-3:2002 as native input. The RIP supports PDF 1.4 features, such as transparency, 128-bit encryption, and referenced PDF.
- Image interpolation: Reduces the resolution of an image to match a lower resolution output device, or increases the resolution to match a higher resolution device.
- Enhanced CID stub font support: Stub fonts are created for all valid CIDFont and CMap combinations at startup, during installation using the RIP "Fonts" menu, or when rebooting after installing a font with an AppleTalk installer. Stub fonts provide backward compatibility for applications that are not aware of CID fonts.
- Enhanced Calibration module: Applies calibration to a calibration set that contains dot gain data in some, but not all, channels.

HQ RIP components

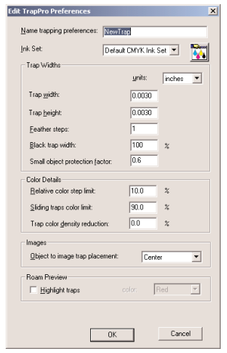
The RIP'ing solution

HQ-510PC RIP

The HQ RIP uses the Harlequin™ ScriptWorks interpreter, which over the years has proven to be the fastest, most configurable RIP on the market. The HQ-510PC RIP is a high-performance PostScript-language-compatible raster image processor. It has a graphical user interface that is easy to use and it supports a wide variety of fonts and input formats. File formats include PostScript, TIFF, JFIF, and JPEG. The HQ-510 v6.0 RIP also supports Portable Document Format (PDF)1.4 or earlier files, without first converting them to PostScript. It supports PDF 1.4 features, such as transparency, JBIG2, 128-bit encryption, and referenced PDF. It supports PDF/X-1a and PDF/X-3:2002, which permit a single file to be distributed to one or more locations as colour-managed or CMYK data ready for final print.

TrapPro and TrapProLite (options)

TrapWorks, the previous in-RIP trapping solution, has been replaced by two new trapping options: TrapPro and TrapProLite. TrapProLite is a direct replacement for TrapWorks. If you previously purchased TrapWorks, your TrapWorks key can enable TrapProLite. Although your TrapWorks key can enable this software, TrapProLite has some new and improved features over TrapWorks.

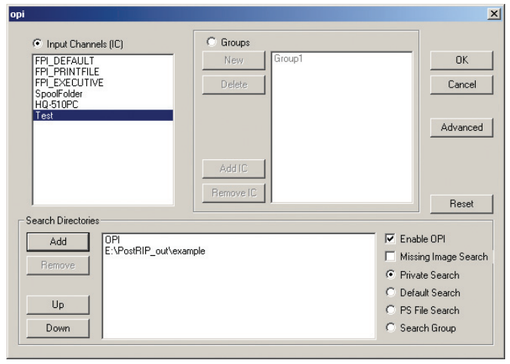


TrapPro is a new trapping engine that adds the features top printers and publishers demanded, providing an improved feature set over TrapWorks.

Both TrapPro and TrapProLite are designed to trap jobs automatically. Both provide in-RIP trapping that can easily be set up to accommodate different types of jobs or customers. Trap settings can be saved to reduce system time, improving both quality and trapped output.

in-RIP OPI (option)

With in-RIP OPI, desktop page layout applications can use low-resolution images, later replaced by the high-resolution images before RIP'ing.

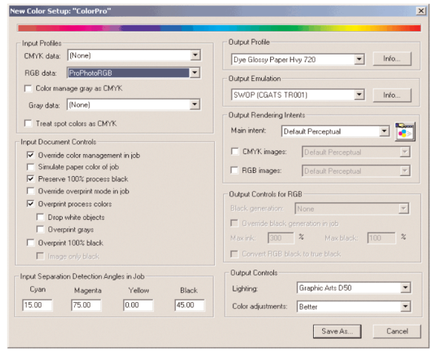


RIPnspector (option)

The RIPnspector software analyzes PostScript and PDF files, then reports all spot colours used in a job and checks for missing fonts and images, images below 150 dpi after OPI (if OPI has occurred), and RGB text or images in a CMYK colour space.

ColorPro (option)

ColorPro is a full-feature colour solution for the HQ RIP that ensures colour quality and accuracy for proofing and emulation. ColorPro provides the largest realizable colour gamuts for the final print market, and allows greater accuracy than would be possible using standard profiles. ColorPro is a direct replacement for previous HQ RIP colour management systems, such as HIPP, HCMS, and HFCS.



ProofReady (option)

ProofReady plug-ins are provided with pre-configured colour setups and calibration sets that enable instant colour management. ProofReady is available for HP and Epson printers, including Epson Variable Size Droplet (VSD) printers. SetGold, a separate utility for use with ProofReady on the PC only, is also included with the ProofReady software. The SetGold software is used to create Golden State profiles.

TIFF/IT-P1 Input/Output (options)

The TIFF/IT-P1 input option makes it possible to input TIFF/IT-P1 jobs from high-end colour electronic prepress systems (CEPS), with concurrent processing of the image (CT) and text/line art (LW) portions of these files. The output option can output PostScript or PDF files as TIFF/IT-P1.

CIP3 PPF (option)

The CIP3 PPF option increases efficiency by improving communications between prepress, press, and post-press using CIP3 Print Production Format (PPF) files. PPF files contain data acquired during the prepress stage of a print job that is used at the press stage to adjust ink keys more accurately.

SPEKTA Screening (option)

This AM/FM hybrid screening overcomes moiré and broken lines.

AlphaLogic Screening (option)

This screening generates high-quality halftone screen output.

CRS Screening (option)

This screening produces no banding.

Harlequin Chain Screening (HCS) (option)

This screening uses an elliptical dot shape to produce smooth flat tints and vignettes.

Harlequin Dispersed Screening (HDS) (option)

This FM or stochastic screening produces fine detail and no moiré.

Harlequin Micro Screening (HMS) (option)

This screening uses a Respi screen structure to allow greater highlight gradation, even at high screen rulings.