



VISUAL DOT
DOT PROOFING INKJET TECHNOLOGY



VISUAL DOT

Digital Halftone Proofing Software



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What is Visual Dot?

- Visual Dot: Digital Halftone Proofing Software
 - Visual Dot is proofing software mainly aimed at high end prepress industry
 - Shows exact screen ruling and angles together with all other necessary aspect of conventional proofing
 - Produces contract quality of proof from numbers of large format inkjet printers available in the market
 - Utilizes original separated data ensuring total data integrity



Why Visual Dot?

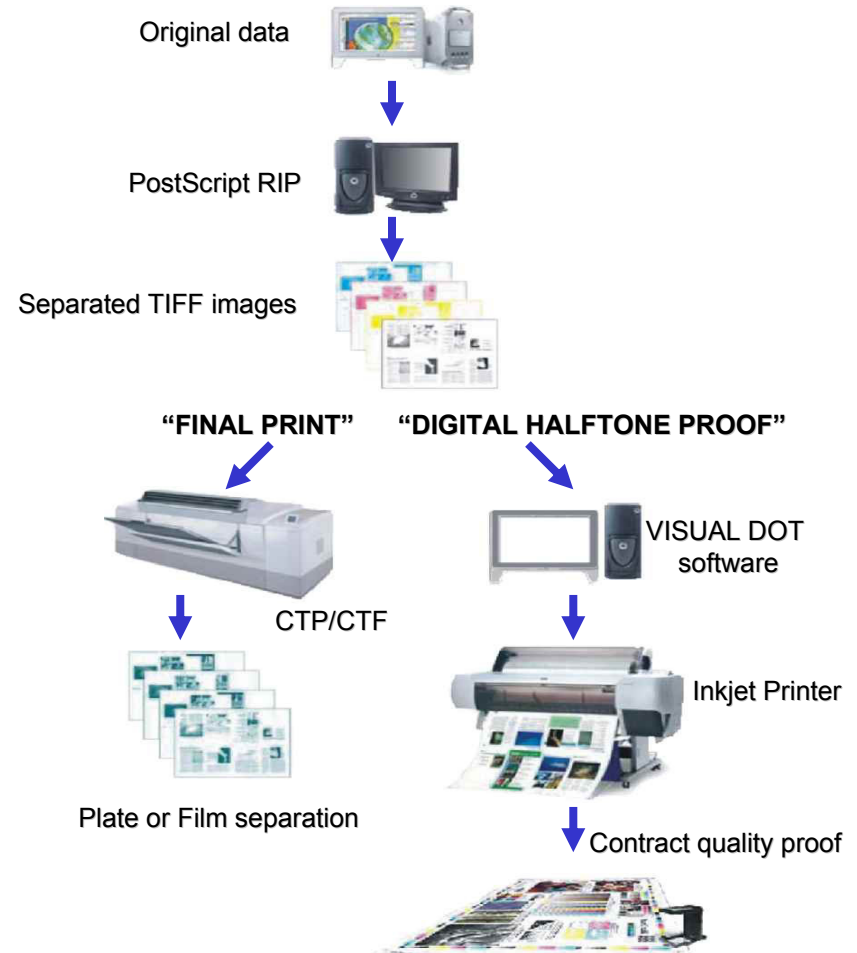
- Analysis of current situation
 - Problems with current solutions
 - Solutions with its own PostScript RIP
 - Composite file should go through RIP for proofing and again RIP for plate-setting or film-setting resulting in inconsistent results between proofs and final printed output
 - Text reflows, font errors, OPI faults, trapping and other PostScript problems are common.
 - Proprietary proofing hardware
 - Comes with dedicated proofing hardware costing huge capital investment
 - Visual Dot Solution
 - Visual Dot uses high resolution data generated by PostScript RIP provided by CTP(Computer To Plate) or CTF(Computer To Film) devices.
 - Results are contract quality of proofs with assured data integrity from low-cost large format digital printers at only fraction of cost compared to conventional proofing devices



General Functions

- Visual Dot has the capability to resample high-resolution, separated, halftoned bitmap files generated from CTP/CTF RIP into a composite color file with screen angles, halftone shapes, screen rulings embedded in the original file.
- Halftone proof is extremely important not only for color management purposes but also for correcting probable errors, that may cost huge amount of money, such as identifying Moire patterns, incorrect trapping settings or PostScript interpretation errors.

Visual Dot solves all these problems!





Features

- Visual Dot sits on its core technology, halftone analysis engine.
- Visual Dot analyses CMYK halftone patterns and screen angles in high resolution separations and reproduces these by creating arrangements of halftone dots on proofing device – right down to rosettes, fine line art, text as small as 1 point, and even defects such as moire patterns.
- The results are superb and contract-quality proofs up to 200 lines per inch depending on resolution and other specifications of color printer to be used with.
- Visual Dot presents various analysis tools for calculating dot size, screen angles, color distribution and saturation, etc.
- Preview image can be generated either RGB or CMYK.
- Composite file in CMYK can be generated in various resolutions.



**Softproofing of
halftone
on monitor**

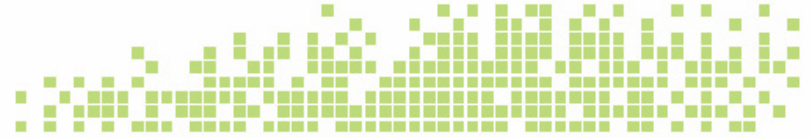


**Hardproofing of
halftone
on inkjet output**

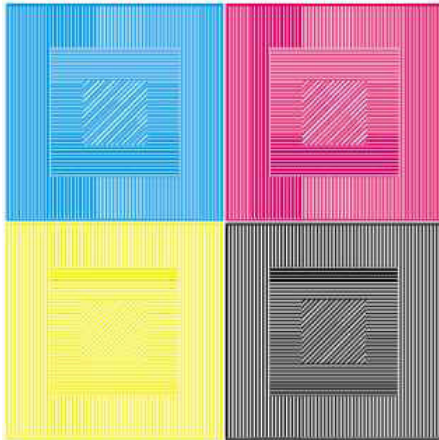


Comparison

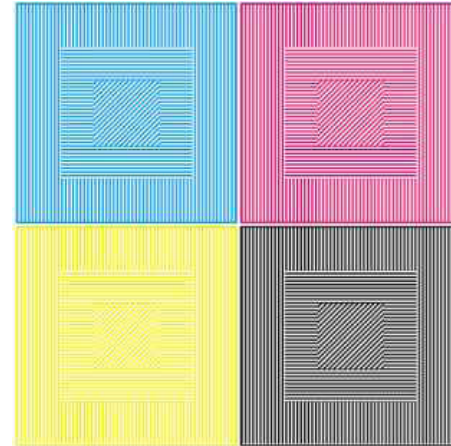
- Continuous tone proofing and halftone proofing
 - Physical difficulties with continuous tone proofing due to different ink system, microscopic details, characteristics of media, etc.
 - Technical difficulties in producing tone down colour, fine texts and lines
- Visual Dot delivers press-look proof by overcoming the limitation of continuous tone proofing.
 - Final result is proofs with press-look colours and details in fine texts and lines by simply adding VisualDot to the **existing workflow**.



Comparison in pattern details



Inkjet Proofing without Visual Dot

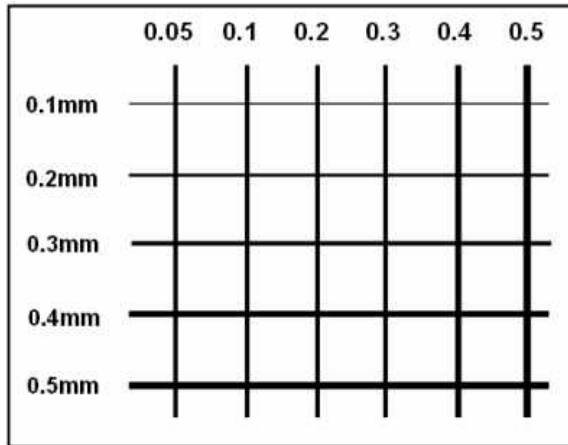


Inkjet Proofing with Visual Dot

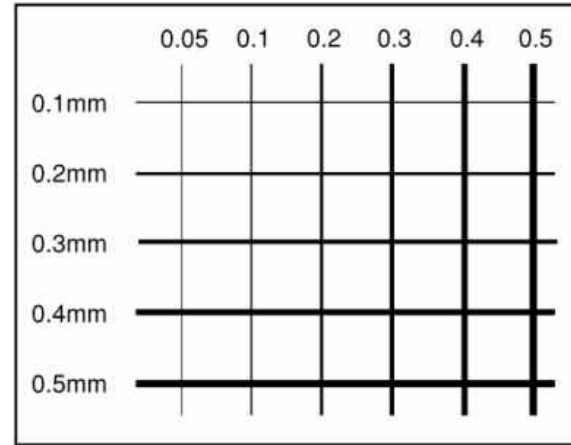
Normal inkjet continuous colour proof can not reproduce exact pattern details.
Lines in contact can be blurred and distance between lines can not be maintained correctly.
Final output will look fuzzy.



Comparison in fine line details



Inkjet Proofing without Visual Dot



Inkjet Proofing with Visual Dot

Normal inkjet continuous colour proof can not reproduce fine fonts and lines.

In general fine texts will look blurred and fine lines will look thicker.

Halftone proof from Visual Dot will reproduce as much details of fine texts and lines as possible.



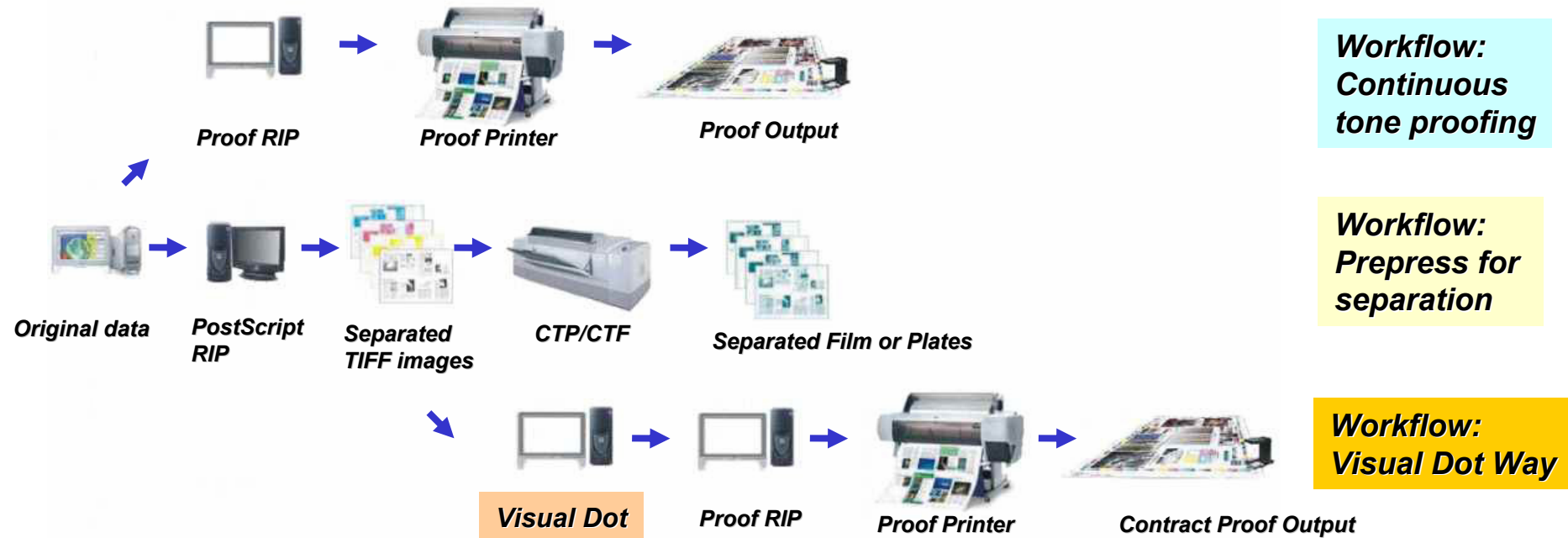
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Seamless integration to existing workflow

- Instead of changing current familiar workflow with all new training and education, you can seamlessly integrate Visual Dot solution.





Additional features

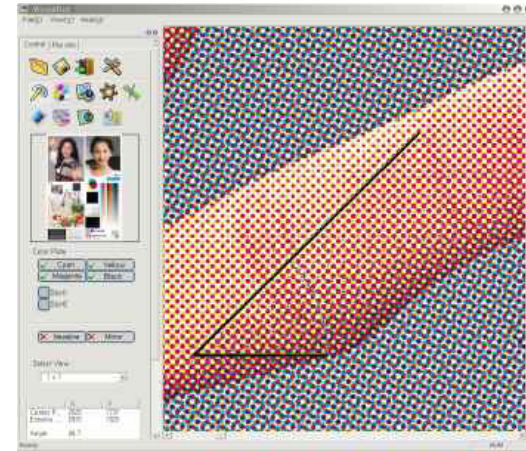
- In addition to basic features of Visual Dot, it provides various other useful functions such as:
 - Users can easily check ‘overprint’ problems by comparing C+M+Y value with K value at certain areas. The ratio is important for continuous tone images as well as pure black in vector images or fonts.
 - It helps you check whether separated images are correct or not with other available tools before generating halftone proof outputs to ensure excellent results.



Screen shots



Preview of merged CMYK TIFF



Analysis of screen angle



Analysis of CMYK saturation in a specific area



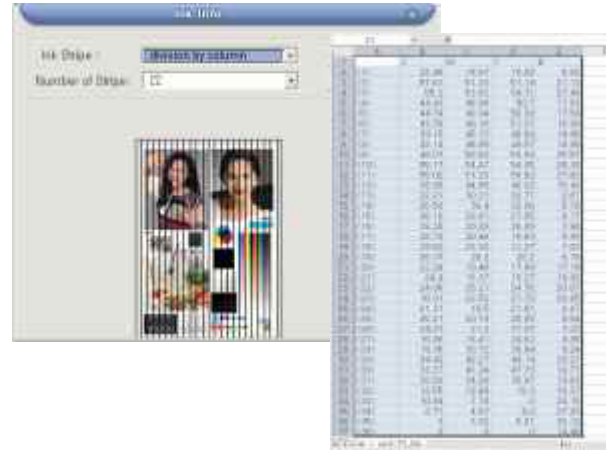
Analysis of distance in pixels and cm



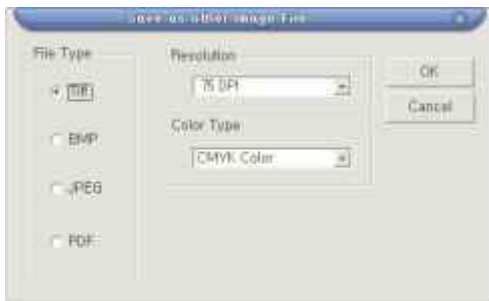
Screen shots



Analysis of halftone pattern with partial zooming tool



CMYK ink information per column or row



Preview image creation (TIFF, bmp, jpeg, pdf ...)



Proof image creation For proofer printing



Modify image by rotation, inversion, mirroring ...



Key Features

- **Dot-to-Dot Softproofing**
 - Collection of TIFF information such as size, resolution, compression methods, etc.
 - Powerful preview of 1 bit TIFF from PS RIP
 - Merge separate images and save as composite image (32bit TIFF, JPEG, BMP, PDF) with various compression methods
 - Rotation, inversion, mirroring, zooming ...
 - Analysis of screen angle for each plate
 - Generating preview images in different format and resolution (TIFF, JPEG, BMP, PDF)
 - Checking CMYK saturation rate for selected area (checking overprint ratio)
 - Checking CMYK saturation rate for each defined column or row
 - Checking distance between dots
 - Checking overprint by analyzing CMY / K value
 - Spot color library for softproofing



Key Features

- Dot-to-Dot Inkjet Proof printing
 - Simulate press screen on inkjet proof printing (screen ruling, angle and halftone shape)
 - Fine image reproduction including rosettes, moire, fine art work and texts
 - Pre-adjustment of dot geometry and dot gain in flexo printing applications to ensure matching proof and print down to dot level
 - Adjusting resolution of proof for different kinds of printers



System requirement

- **Computer**
 - CPU: Intel Pentium III 1GHz or above
 - OS: Windows 2000 professional or higher (recommended)
 - Memory: 512MB or more
 - HDD space: Minimum 1GB (2GB recommended)
- **Input file format**
 - Any 1 bit TIFF file generated by any RIP software
- **Compatible compressions for input/output**
 - CCITT G4, CCITT G3, CCITT Huffman RLD and Packbits
- **Supported Printers (depending on the resolution and available drivers of printers provided by Proof RIP software)**
 - EPSON Stylus Pro 4000, 7000, 7500, 7600, 9000, 9500, 9600, 10600 ...
 - EPSON Stylus Photo 2100, 2299 ...
 - HP DesignJet 10PS, 20PS, 50PS, 120, 1050c, 5000, 5500 ..., HP30, 130 ...
 - Canon W2200, BJC-8500...
 - And many others
- **RIP for Proof printing and colour matching**
 - Any RIP importing 32bit TIFF files
 - Sister product TOPAZ RIP v. 8.0 is strongly recommended



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Contact Us

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