gmg dotProof

Create digital contract proofs from screen data

More than a continuous proof

Color-accurate continuous proofs are not always sufficient when a real contract proof is required. In many cases, a proof is needed that not only reproduces colors accurately, but also shows the halftone dot pattern. GMG DotProof® provides that capability.

Benefits of a halftone proof

The color accuracy of halftone proofs created with GMG DotProof is identical to the color accuracy provided by the award-winning GMG ColorProof solution. DotProof, however, produces accurate color that includes halftone screening from the final bitmap data generated by the imagesetter or CTP RIP. This guarantees absolute data integrity since screen angle, screen ruling and dot shape are preserved in their entirety.

High throughput thanks to optimal data processing

The DotProof module is an option for GMG ColorProof 04. It allows bitmap data to be processed directly for proofing via inkjet printers. GMG DotProof uses algorithms specially developed by GMG for scaling halftone screened data to the inkjet printer resolution. This process, together with GMG color management, is carried out "on the fly" when printing, allowing very high throughputs and fast printing speed.

Simulation of tone reproduction curves and dot gain

DotProof provides the only means of simulating individual tone reproduction curves and dot gain for a wide variety of different presses. The DotProof module's MX5 profiles take both the imagesetter or CTP curves as well as the press dot gain characteristics into account during the proofing stage, allowing exact matches between press and proof.

Early recognition of moirés and trapping errors

Halftone proofs are vitally important for identifying problems such as moiré artifacts, incorrect trapping settings or interpretation errors in the imagesetter or CTP RIP before plates are exposed or the print process begins. Halftone proofs help users minimize the cost and time losses resulting from prepress errors. A color-accurate halftone proof also allows the printer to adjust press setting quickly.

Perfect contract proofs with dot-for-dot reproduction

Unlike many competitors' products, DotProof produces a genuine color-accurate halftone proof that also meets contract proof requirements. DotProof is unique in that the color management and bitmap output processes are run in parallel.
Color information, dot gain, and halftone output are calculated "on the fly", producing very rapid throughput. The result is a perfect contract proof with dot-for-dot reproduction on halftone screens up to 200 lpi, depending on the printer used.

Seamless integration into existing workflows

Since the bitmap used in the proof is generated by the imagesetter or CTP RIP, integration of the halftone proofing system into existing system environments is particularly important. GMG DotProof can be integrated into all relevant workflows. Sophisticated tools assist in this process, including one for parameterization of naming conventions.

Halftone proofs for commercial printers, newspapers and packaging printers

GMG DotProof is the solution for all businesses – from commercial to packaging printers to newspapers – that want to proof their 1-bit data. Halftone proofs produced by GMG DotProof are particularly useful for printing operations using coarse screening rulings where the halftone process plays a significant role in the final appearance of the image.

For more information about GMG products, please contact your GMG dealer or visit us at www.gmgcolor.com.

GMG DotProof Technical Data

Software requirements	
Operating system	Microsoft Windows 2000 Server, Windows 2003 Server or Windows XP Pro
Hardware requirements	
Processor	Intel Pentium IV 1.8 GHz or higher, or Dual CPU Pentium Xeon
Product features	
Advantages	Retention of the original screen (screen ruling, angle and dot shape) Incorporation of tone reproduction curves and press dot gain Special computer algorithms for dot-for-dot reproduction High throughput by adjusting the imagesetter data to inkjet printer resolution Simulation of printing substrate
Software components	GMG DotProof
Output devices	Epson 4000, 7600, 9600, 10600 HP 30, 130 Canon W2200, W2700, W2750 Creo Veris, Iris Many other inkjet printers (contact us for details)
Supported photometers	Current X-Rite and GretagMacbeth models

Product features	
Supported formats	PostScript, PDF, Tiff, Tiff-IT (CT/LW composite), Tiff-IT (CT/LW separated), Tiff-LZW, Tiff-PackBits, 1-Bit-Tiff (screen data), Scitex CT/LW EskoGraphics (Barco), ArtPro AIF (Artwork Systems), CelebraNT JTF (FujiFilm), Delta Document, Delta List, Photoshop DCS, Photoshop EPS, JPEG, etc.
Supported profiles	GMG MX3, MX4 and MX5 profiles Standard ICC profiles
Spot colors	Unlimited number of process and spot color separations per proof job Editable spot color database Pantone® Library support Special color systems such as HexaChrome
Workflow integration	Interfaces to Delta, MetaDimension, Prinergy (all Heidelberg printers), Nexus (Artwork Systems), EskoGraphics (Barco), Brisque (Creo), Apogee (Agfa), CelebraNT (FujiFilm) TWiST (DALiM Software), Harlequin
Supported languages	German, English, French, Italian, Spanish, Chinese, Japanese
Included components	GMG DotProof on CD User Manual Dongle

GMG GmbH & Co. KG, Moempelgarder Weg 10, 72072 Tuebingen, Germany.
Tel +49 (0) 7071-93874-0. Fax +49 (0) 7071-93874-22. info@gmgcolor.com. www.gmgcolor.com.

DotProof/01/04_04/en