gmg flexoProof

The proofing standard for the flexo and packaging markets

The product portfolio in flexo and packaging printing is characterized – in comparison with standardized offset and illustration gravure printing – by far greater substrate and spot color diversity. Consequently, the demands on a digital proofing system are also higher in the packaging sector. GMG sets new standards in this field with its GMG FlexoProof software, which is specifically geared to the needs of the flexo and packaging markets.

Target groups
- Prepress businesses and printers in the packaging and label sector

Your advantages at a glance

◄ *Production reliability due to screen control*
GMG FlexoProof processes not only industry standard data formats, but also the original 1-bit data of the imagesetter RIP. These data are color-profiled, retaining the original screen information, and output on inkjet printers in contract-proof quality. This allows dependable and timely checking, i.e. before plate making, to detect any interpretation errors, incorrect overprinting or trapping settings, tonal breaks and moiré effects. In this way, the individual tone reproduction curves and dot gains of a wide variety of presses, or the occasionally coarse screens used in flexo printing, can already be reproduced in the proof.

◄ *Flexibility due to simple workflow integration*
The GMG FlexoProof solution offers a high level of integration in numerous common workflows. The separations of the imagesetter RIP are adopted automatically, color-interpreted, and realized on the proof printer. After printing the proof, GMG FlexoProof automatically makes the data available to the workflow again for further processing.

◄ *ROOM concept saves time and money*
A true ROOM concept (Rip Once, Output Many) is realized if the original imagesetter data are used. As a result, internal processes are optimized and synergistic effects created, since once-only data processing in the imagesetter RIP means that the processes are more tightly networked and throughput is increased. This has a direct influence on profitability.

◄ *Substrate reproduction*
Individual substrate structures, such as paper fibers or corrugated board structures, can be created in the

system and thus reproduced in the proof. The nature of the structures is irrelevant, be they paper fibers, embossed structures, corrugated board patterns or the like. Unfavorable printing conditions, such as printing on wood pulp paper, can additionally be simulated with the help of variable image noise. The effects of register variations and missing dots can also be reproduced.

◄ *Extensive spot color functions*
GMG FlexoProof supports all common spot color systems and processes up to 64 separations in one image. The HKS Library, the Pantone® Formula Guide/ Goe™ Library, and the DIC Color Guide are included in the scope of supply. The spot colors are stored in a central database that can be edited and expanded by the user. For proof output, a special algorithm is used to calculate the overprinting properties of the spot colors, which are reproduced in the correct colors as a result.

This is particularly important for simulating duplex jobs, or when using color models, such as Hexachrome®. The opacity of the spot colors and the order in which they are printed can likewise be specified at will. White underprinting can be defined as a color of its own.

◄ *Low-cost, high-speed simulation of more color*
The new GMG FlexoProof XG module now enables users to exploit the advantages of the Canon imagePROGRAF iPF x3x0, Epson Stylus Pro x900 and HP Designjet Z3200 multicolor printer series. These printers have an expanded color gamut, allowing far more spot colors to be simulated in the halftone proof. Up to now, this was only possible using expensive and slow thermal halftone proofing systems.

More information is available from your graphic arts dealer or at **www.gmgcolor.com**.

Technical Data GMG FlexoProof

Software requirements	
Operating system	Microsoft Windows 2003 Server, 2008 Server (32-bit, 64-bit), XP Professional, Vista, Windows 7 (32-bit, 64-bit)

Hardware recommendation	
Processor	Intel® Core™ i5 processor 650, 3.2 GH
Memory	4 GB RAM, min. 250 GB hard disk
Graphics card/Monitor	Min. 1024 x 768 dpi resolution, DirectX 10 support
Miscellaneous	DVD-ROM, min. 2 x USB 2.0, network card

The hardware requirements depend on the operating system used, and on the number and type of output devices.

Features	
Supported output devices	Epson Stylus Pro 4000, 4400, 4450, 4800, 4880, 4900, 7400, 7450, 7600, 7800, 7880, 7890, 7900, WT7900, 9400, 9450, 9600, 9800, 9880, 9890, 9900, 10600, 11880
	HP Designjet 130, 1050, 1055, 4000, 5000, 5500, Z2100, Z3100, Z3200, Z6100
	Canon imagePROGRAF iPF 6300, 6350, 8300
	Canon imagePROGRAF iPF 6300s, 8300s
	Roland VersaUV LEC-330, 540
	Roland VersaCAMM VS-300, 420, 540, 640
	Mimaki UJF-706

Features	
Supported formats	PS, PDF, PDF/X, TIFF, TIFF-LZW/Packbits, Bitmap-LEN, Photoshop DCS/EPS (Adobe), JPEG, etc.
Supported printing standards	Profiles for all common international printing standards, such as ISO, PSR, SWOP/GRA-CoL, 3DAP, etc. are included. Support of ICC profiles (incl. multicolor) and ICC specification V2 and V4.
Spot colors	Support of unlimited process and spot color separations in pixel data, support of 27 spot color separations in PDF files; support for spot color systems, such as Hexachrome®
Supported measuring instruments	Current models from X-Rite incl. DTP70, Spectrolino/SpectroScan, EyeOne, iO, iC-Color, iSis, Barbieri Spectro LFP
Supported languages	English, German, French, Italian, Portuguese, Spanish, Chinese traditional and simplified, Japanese, Korean
Scope of supply	GMG FlexoProof on DVD; dongle; manuals; various control strips, calibration sets and GMG Proof Standards; freely editable spot color databases like HKS, Pantone Formula-Guide/Goe™ and DIC Library; GMG Spot-Color Editor
Options / Licences	Licences for all supported printers (at least one printer licence required), GMG ProfileEditor, GMG DotProof, GMG Extended Gamut Option (XG), GMG ProofControl Inline, GMG Print & Cut Option

gmgcolor **Adobe® PDF Print Engine**