



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		Features	
Operating system	Microsoft Windows 2003 Server, 2008 Server (32-bit, 64-bit), XP Professional, Vista, Windows 7 (32-bit, 64-bit)	Supported output devices	Epson Stylus Pro 4000, 4400, 4450, 4800, 4880, 7400, 7450, 7600, 7800, 7880, 7900, WT7900, 9400, 9450, 9600, 9800, 9880, 9900, 10600, 11880 HP Designjet 130, 1050, 1055, 4000, 5000, 5500, Z2100, Z3100, Z3200, Z6100 Canon imagePROGRAF iPF 6300, 6350, 8300 Roland VersaUV LEC-330
Hardware requirements		Supported profiles	Proof Standards and calibration sets, incl. MXC, MX3, MX4, MX5 and ICC profiles, support of ICC specification V2 and V4
Processor	Intel Core 2 Quad, Q6600 or similar, 2.4 GHz, 2x4 MB Level 2 (L2) cache	Spot colors	Support of unlimited process and spot color separations in pixel data, support of 27 spot color separations in PDF files; freely editable spot color databases; HKS, Pantone and DIC Library; support for spot color systems, such as Hexachrome
Memory	4 GB RAM, 750 GB hard disk, 5 GB free hard disk space for software installation	Supported measuring instruments	Current models from X-Rite incl. DTP70, Spectrolino/SpectroScan, EyeOne, iO, iC-Color, iSis
Graphics card/Monitor	Min. 1024 x 768 dpi resolution, 32-bit color depth, DirectX 9.0c support, 256 MB memory (e.g. NVIDIA GeForce 8600 GT)	Workflow integration	Easy integration via hot folder
Miscellaneous	DVD-ROM, min. 2 x USB 2.0, network card	Supported languages	English, French, German, Italian, Polish, Portuguese, Spanish, Chinese, Japanese, Korean
<i>The hardware requirements depend on the operating system used, and on the number and type of output devices.</i>		Scope of supply	GMG FlexoProof on DVD; dongle; manuals; various control strips, spot color libraries, printer calibrations and (halftone) proofing profiles
Features			
Software components	GMG FlexoProof, GMG ProfileEditor, GMG SpotColor Editor, GMG RipServer (Adobe® PDF Print Engine)		
Supported formats	PS, PDF, PDF/X, TIFF (LZW/Packbits), TIFF-IT (CT/LW composite and separated), TIFF-Bitmap (LZW/Packbits), Scitex CT/LW and Assign (Kodak), Bitmap LEN and ArtPro AIF (EskoArtwork), Presstek, Photoshop® DCS/ EPS (Adobe), JPEG, etc.		
Options	GMG FlexoProof XG and XG WT module		



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