

Feature Name	Feature Description	PS5 SELECT	PS5 PRO	PS5 ULTIMATE
Processable file formats	List of the supported file formats:			
Automatic file format recognition	For all typical file formats in print production	X	X	X
PDF/X-3	Output possible. The PG module is required to use all functions of the file.	PGM	PGM	PGM
Output Intent Unterstützung für PDF/X	Embedded Output Intents in PDF/X3 and 1-a files can be used as input profiles.	No	X	X
Separated PDF files	Composite output possible. The FG module is required to print the file separated.	FGM	FGM	FGM
Raster formats	Including JPEG, TARGA, TIFF, BMP, PCD, PSD, etc	X	X	X
POSTSCRIPT 3, PDF 1.5, PDF/X-1a, EPS, DCS 2.0		X	X	X
MULTIPAGE PDF & POSTSCRIPT FILES	Selection of a page, a document region or the entire document. 'Multipage container' can also be created in connection with 'Container'.	OPTION	X	X
Job processing functions	List of the job-specific functions and settings options:			
Preview	Selected jobs in a window: Preview, placement on the output media, rotated view.	X	X	X
> Split preview	Before-after job display for visualization of changes in color management and/or corrections.	X	X	X
> Softproof preview	Simulation of the print output on the screen for visualization of printer and/or simulation color space as well as color corrections or gray scale conversions. Separated PDF files will be displayed in composite mode (merging of all separations).	X	X	X
> Thumbnail preview	Display of thumbnail preview and job properties when mouse pointer will be moved over the job. Display of thumbnails when jobs will be moved into the next queue.	X	X	X
Separations preview	Separation display types in the primary interface can be switched between to offer various preview options.	FGM	FGM	FGM
> Full color preview	Colored job preview in composite mode (merging of all separations).	FGM	FGM	FGM
> Process color separations	Individual display of the separations. The separations are displayed in CMYK and spot colors.	FGM	FGM	FGM
> Halftone separations	Individual display of the separations in black/white.	FGM	FGM	FGM
> Arrangement of the separations on the printing area	Output preview of the arrangement of all separations on the medium.	FGM	FGM	FGM
Freely definable scaling	Proportional or non-proportional scaling of the job in height, width and percent.	X	X	X
> Automatic adjustment to the medium size	Jobs can be automatically scaled to the media size.	X	X	X
Fixed output area (stencil size)	Specification of the max. output area with output of cut marks and indication of protected margins.	FGM	FGM	FGM
VISUAL SCALING	Scaling of a job with respect to the image are through positioning of a distance tool.	OPTION	X	X
Cut and registration marks	Printing of cut and registration marks.	X	X	X
ADVANCED CUT MARKS	Printing of special cut marks, for instance for automatic cutting machines from FOTOBA.	OPTION	X	X
Mirror and rotate in 90° steps	Mirror jobs and rotate in 90° steps for output.	X	X	X
Auto Rotate	Automatically rotate jobs with space optimization.	X	X	X
Offset and centering	Horizontal and vertical setting of the offset or centering of a job on sheets or rolls.	X	X	X
> Offset to center	For easier placement of multiple CD output, enables spacing between center of CD's instead of the usually used image border.	No	No	No
Copy and layout print	Repeating of jobs (copies, layouts) for optimized and media-saving production. Only one RIP process for outputting job copies.	X	X	X
> Fill rows	The last row of a copy and layout print will be filled up with job copies to save media.	X	X	X
Job duplication / linking	Duplication of jobs or creation of links to existing jobs.	X	X	X
Copy and layout print on fixed output area (stencil size)	Specification of the maximum output area for repeating of jobs (copies, layouts) with output of cut marks and indication of protected margins.	FGM	FGM	FGM
Cropping	Definition of print areas.	X	X	X
> Circular cropping	Definition of circular or elliptical print areas.	No	No	No
Auto tiling	For automatic segmenting with overlapping of an oversized job (wider than the medium).	X	X	X
VARIABLE TILING	Freely definable segmenting of the job with overlapping. Saving and loading of the settings or the segmentation properties. Printing of crop and overlapping marks for job segmenting. Changes to the separation are accepted without a new RIP process.	OPTION	X	X
> Format input and overlapping	Input fields for definition of the width and height of an job segment and specification of individual overlapping regions on the left and / or right side.	OPTION	X	X
> Recess	Input field for definition of a recessed area between two job segments.	OPTION	X	X
> Horizontal Tiling	Freely definable horizontal segmenting of the job with overlapping. Saving and loading of the settings or the segmentation properties. Printing of crop and overlapping marks for job segmenting. Changes to the separation are accepted without a new RIP process.	OPTION	X	X
> Advanced tiling features I	Simplified segmenting of print jobs. Input field for number of segments with automatic creation of equal segment sizes.	OPTION	X	X
> Advanced tiling features II	Simplified segmenting of print jobs. Splitting of a segmented job into separate jobs.	OPTION	X	X
CONTAINER	Merging of multiple jobs into a container (collective print job).	OPTION	X	X
> Auto arrange	Automatic space-optimized arrangement of the selected jobs based on the selected media width.	OPTION	X	X
> Job properties	Changes to the job properties, such as the printing and color settings of individual jobs.	OPTION	X	X
> Levels	Option for placement and output of jobs above or below one another, for instance to integrate logos.	OPTION	X	X
> Free placement	Free placement of the jobs with the 'drag-and-drop function' or through input of the XY coordinates.	OPTION	X	X
> Freely definable scaling	Free scaling of an job. The proportions of an job can optionally be retained or released for changes (job properties).	OPTION	X	X
> Job duplication	Jobs can be duplicated based on a master copy principle. Changes to the settings of the master are applied to the duplicates.	OPTION	X	X
> Duplicate approval	Decoupling of a duplicate from the master for individual adaption of the job properties.	OPTION	X	X
> Magnetic object edges / guide lines	Specification and visualization of horizontal and vertical spaces between objects and jobs. For precise job arrangement using magnetic object edges that are designated by temporarily visible lines. Activation of magnetic guide lines for precise job arrangement with an input dialogue for the positioning coordinates.	OPTION	X	X
> Define job / object spacing	Input of the distances between two objects for automatic job arrangement.	OPTION	X	X
> Copy and layout print	Freely definable copy printing (number of outputs) of a container with a dialogue for the spacing between the individual containers.	OPTION	X	X
> Multipage container	Assignment of multipage PDF and PostScript files to a container (collective jobs) with selection option for job pages. Possible in connection with options 'Multipage PDF & PostScript files' and 'Container'.	OPTION	X	X
> Tiling container	Container generation (collective print jobs) in outputting segmented jobs. Segments can be rotated, e.g. to print large, single-colored areas in a piece. Possible in connection with options 'Variable tiling' and 'Container'.	OPTION	X	X
> Printmode check	Warning message if there a jobs with different printing resolutions in a container. Changing of the printing resolutions of all jobs within the container properties.	OPTION	X	X

Fixed output area (container size)	Specification of the maximum container sheet size with output of cut marks and indication of protected margins. Possible on connection with 'Container'.	PHM	PHM	PHM
Contact printing	Automatic generation of image overviews (series).	PHM	PHM	PHM
Selection of standard formats for sheet and roll products	Depending on the printer used, standard formats for sheet and roll products are available.	X	X	X
Free text line and job information	Input of individual text and job-specific information for inclusion in the printing	X	X	X
EXIF data information	Exporting and selection of existing EXIF data in the selection window for inclusion in the printing.	X	X	X
Pipette tool / on-screen densitometer	Display of the CMYK percentile values in the full screen preview via mouse-over. In split preview, the values before and after a correction are displayed.	X	X	X
Color Picker	Advanced pipette tool. Creation of a new color replacement entry via right click of an area in the preview. Included in OPTION spot color replacement.	OPTION	X	X
Integrated FOGRA media wedge 2.0	The FOGRA media wedge 2.0 can be output with every proof.	PGM	PGM	PGM
> Free positioning	Free positioning of the FOGRA media wedge.	PGM	PGM	PGM
Control wedge evaluation with report function	In addition to ISO reference profiles, separate ICC profiles can be defined as control reference for evaluation of the media wedge. All proof-relevant information, as well as printing time and measuring time are logged. This evaluation can also be output as a label for 'Dymo Label Writer'.	PGM	PGM	PGM

Output controlling functions	List of automated or job-specific color control functions:			
MIM (Media-Ink-Metamode) technology	Selection method for all color- and production-influencing parameters such as medium (M), ink (I) and metamode (M). Every MIM combination links profile, linearization and print mode settings into a single logical unit.	X	X	X
MIM (MEDIA-INK-METAMODE) ADMINISTRATION	For administration and processing of MIM (Media-Ink-Metamode) combinations. Copy, edit, delete or create MIM combinations. Import and export of ColorGATE MIM packages (*.cmp) possible.	X	X	X
> Import link	Import of MIM combinations within the colormanagement menu.	X	X	X
Queue installation assistant	Intelligent assistant for installation of printer queues. Printers are sorted by manufacturer. Connection test for TCP/IP printer and direct import of MIM combinations. Saving of archive and hotfolder paths. Specification of the workflow type.	X	X	X

General workflow functions I	List of the general, process-specific functions and settings options:			
Drag-and-Drop function	Importing and positioning of jobs	X	X	X
> Advanced Drag and Drop function	Drag and drop of multiple jobs into the next queue at the same time.	X	X	X
Number of printer queues	Included print queues	1	2	4
ADDITIONAL PRINTER QUEUE	Expands the printer queues by one additional software-supported printer each (max. 6)	OPTION	OPTION	OPTION
Number of parallel RIP process'	Enables ripping of multiple jobs at the same time in one queue.	1	2	4
Printer driver(s)	Included printer driver(s)	1x Cat1	2x Cat1	4x Cat1
ADDITIONAL PRINTER DRIVER	Expands the software with an additional printer driver from the selected printer category.	OPTION	OPTION	OPTION
Job sorting	Job sorting by status, alphabet, file and output size, screen type and copies.	X	X	X
> Advanced job sorting	Free definition of column type and number for the job sorting. Automatic range in of new jobs.	X	X	X
Job-Logging	Process monitoring and logging of print jobs. Display of job- and event-related information.	X		X
> Job information	Display of process results like the creation of jobs or printing data.	X	X	X
> Job analysis	Display and warning message if a font or spot color is missing.	X	X	X
> Print information	Accounting of printing time, speed and printed area.	X	X	X
Border-less printing	Border-less printing output on suitable printers.	X	X	X
Hotfolder links	Sending of jobs into an other hotfolder via right mouse click.	X	X	X

General workflow functions II	For automation:			
Job preview	Preview of the job file in the main interface The placement on the medium can be displayed.	X	X	X
Virtual printer	Creation of a virtual printer (PortMonitor) for transferring print jobs out of an application.	X	X	X
> Dynamic PPD generation	Allows exporting of a configuration-specific PPD (PostScript Printer Definition) for the virtual printer under PC/Mac/Unix.	X	X	X
Number of Hotfolders	Number of monitored folders for automatic job processing with predefined output settings.	1	10	20
> Hotfolder package	Increase the number of existing hotfolders about 5.	OPTION	OPTION	OPTION
RIP WHILE PRINT	Prints the job while calculation (RIP) process is still running.			
Hot Container	Automatic generation of a container (collective print job) from jobs that are imported via a hotfolder. In connection with the 'Container' option.	OPTION	X	X
> Control through printing length / countdown	Completion and automatic printing of a container after the specified container length is filled with jobs or after a predefined time limit is reached.	OPTION	X	X
Archiving of the printing data	For reproduction of already printed jobs without another RIP process.	X	X	X

The ColorGATE RIP technology supports three output workflows for several application areas:
1 Production (final print production) 2 Proof (simulation) und 3 Computer-to-film/screen/plate.

Color-relevant output functions	Workflow	List of the color-specific control functions:			
Gray scale conversion and effect toning	1	Creation of grayscale images with individual effect toning, such as sepia effect.	PHM	PHM	PHM
ICC color management	1,2	Support for ICC color management	x	x	x
CrossXColor ICC color transformation engine	1,2	ICC-compliant color space transformation of RGB and CMYK data.	x	x	x
MULTI-COLOR ICC ENGINE	1,2	Support for multicolor ICC profiles (e.g. CMYKOG) with up to 15 color channels.	OPTION	X	X
Use of embedded ICC profiles	1,2	Exporting of input profiles from JPEG, TIFF, and PDF files for use as input color space.	X	X	X
Selectable rendering intents	1,2	Photographic, relative colorimetric, absolute colorimetric, saturation, relative colorimetric with black point compensation, absolute colorimetric with correction of optical brighteners, absolute photographic.	X	X	X
COLOR CORRECTION TOOLS	1,2	Interactive color correction tools for adjustment and correction of the job output.	OPTION	X	X
> Gradient curve diagram / channel selection	1,2	Display of the gradient curves in an input and output diagram. Separate processing of the CMYK channels or all channels simultaneously.	OPTION	X	X
> Brightness / contrast / gamma correction	1,2	Input field for adjustment of brightness, contrast and gamma correction.	OPTION	X	X
COLOR REPLACEMENT	1,2	Color replacement with direct measurement device integration for any input colors or color ranges (RGB, CMYK, spot) via CMYK and lab. Selectively applicable for vectors and raster/bitmap data and text, HKS™ E, K, N and Z Pantone® and color replacement tables optional, alias assignment, administration of any number of replacement tables and entries. Compatible with color palettes of the leading application packages via the CxF format.	OPTION	X	X
Ambient light compensation	1,2	Print output with color compensation for the ambient light.	PHM	PHM	PHM
CrossXColor DeviceLink Technology	2	Separation-retaining color space transformation.	PGM	PGM	PGM

Output of spot colors in the maximum printer color space	2	Use the printer color space for outputting spot colors.	PGM	PGM	PGM
White point adjustment	2	Adjustment of the paper white simulation without alteration of the ICC profile.	PGM	PGM	PGM
Input dot gain compensation	2,3	Compensation of the dot gain between +/- 40% for single or all separations.	PGM/FGM	PGM/FGM	PGM/FGM
Auto job separation	3	Automatic creation of CMYK separations of a job	FGM	FGM	FGM
Convert spot colors to process colors	3	Conversion of embedded spot colors into the CMYK separations	FGM	FGM	FGM
Negative output	3	„Negative Output“ allows producing negative color separations in screen workflow. Exactly all these areas of a screen will not be printed which wont be printed with a positive printing technology and vice versa. „Info Text“, „Print Cut Marks“ and „Print Registration Marks“ will also be printed inversely.	FGM	FGM	FGM

Linearization and calibration functions	List of functions for basic calibration of output systems:				
LINEARIZATION ASSISTANT	Spectral meter based assistant for creation of printer- and media-specific linearizations.				
> MIM (Media-Ink-Metamode) settings	Creation and processing of an MIM (Media-Ink-Metamode) combination in which the generated linearizations are automatically integrated.	OPTION	X	X	
> Color transfer	For definition of the transition areas from light to full-tone colors.	OPTION	X	X	
> Basic calibration	Manual advance linearization for correction of ink quantities that are too high or too low already in advance.	OPTION	X	X	
> Selection of the measurement device and target documents	Selection of an appropriate target document for the measurement device.	OPTION	X	X	
> Measurement	The measurement device is controlled via the software. The measurement data can be loaded and saved.	OPTION	X	X	
> Preview of the measurement data	Preview of the spectrally measured data per channel via mouse-over, displayed in density and lab.	OPTION	X	X	
> Full color	Automatic or manual definition of the full color tone.	OPTION	X	X	
> Linearization curves	Display of the linearization curves per channel.	OPTION	X	X	
> Ink limit target	Printing of an ink limit target in order to define the maximum ink lay down	OPTION	X	X	
> Reference target	Output and measurement of a reference target for recording of linearization values. The measurement result is the basis for a linearization synchronization.	OPTION	X	X	
> Gray balance optimization	Interactive process within the linearization assistant for optimization of the gray balance.	OPTION	X	X	
MEDIA-DEVICE-SYNCHRONIZATION	Synchronization of identical printers for deviations caused by systems or environments. It is based on a profile which considers the full gamut of process colors. A higher accuracy in comparison to the linearization synchronization is possible.				
> Media default target	Output and measurement of a media default target for system calibration to the media default of the original MIM combination. Display of the calibration results in number of optimized patches and delta E differences.	OPTION	x	x	
Creation of linearizations based on percentile dot size	Adjustment of the linearization of screen separations via densitometric (% dot) measurements. Linearization takes place per channel and includes the dot gain limitation.	FGM	FGM	FGM	

Available screening processes	Listung der verfügbaren Rasterverfahren:				
ColorGATE Smooth, Crispy and Floyd Steinberg	Error diffusion screening.		Only with V4 MIM	Only with V4 MIM	Only with V4 MIM
ColorGATE Speed Screen	Stochastic screening with comparable quality to error diffusion, however with significantly faster processing speed.	X	X	X	
ColorGATE Hybrid Screen	AM/stochastic screening technology that reduces moire artefacts	FGM	FGM	FGM	
PostScript Screens	PostScript screening with 17 spot functions included.	FGM	FGM	FGM	
Blend Optimizing	Various options for improved output of curves are available.	X	X	X	
Support of manufacturer-specific halftoning	Support for manufacturer-specific halftone modules, such as: Epson HTM, Canon PB, HP Contone.	X	X	X	

Available modules	Modules are application-oriented collections of functions for expanded product functionality:				
FILMGATE Module (FGM)	For production of films for screen or offset printing on a suitable inkjet printer.	FGM	FGM	FGM	
PRINT&CUT Module (PCM)	For production of contour cuts with a cut plotter. Synchronization marks for automatic position detection and alignment in finishing.	PCM	PCM	PCM	
PROOF Module (PGM)	For creation of legally binding color-accurate proofs according to MediaStandard Druck: 2003 (ISO 12647-2) with integrated licensed FOGRA media wedge. Typical printing requirements and individual house standards can be verified and logged.	PGM	PGM	PGM	
PHOTO&FINEART Module (PHM)	For creation of photographic and fine art prints. Diverse functions for neutral gray scale functions, individual effect toning and color compensation for ambient light.	PHM	PHM	PHM	
PROFILER Module (PFM)	For creation of ICC profiles, directly from the assistant-guided software. The linearization and profiling assistant guides through the relevant settings, ensuring professional generation of printer profiles. Freedom in the media selection for the flexible digital prints with the highest color quality	PFM	PFM	X	
> Test print	Printing of different test pictures for visual check of the ICC profile quality.	PFM	PFM	X	
CD PROFILER Module (CDPFM)	For creation of ICC profiles for CD printing. An additional circular CD target will be available, ensuring the professional ICC profile generation for CD printing. The targets will be measured with the fully automated EyeOne iO.	No	No	No	
MULTI-COLOR PROFILER Module (MCPFM)	For creation of ICC profiles which support additional color channels like CMYK O(range)/G(reen) or CMYK R(ed)/B(lue). An assistant guides through the relevant settings, ensuring professional generation of printer profiles. Functionality according to the PFM.	MCPFM	MCPFM	MCPFM	
EXPRESS PROFILER Module (EPFM)	For accelerated creation of ICC profiles for output devices. The assistant adapts an existing color profile for a media/ink to a new media/ink with similar properties. Only one target needs to be printed and measured.	EPFM	EPFM	X	
REFERENCE PROFILER Module (RPFM)	For creation of ICC profiles for output devices, which cannot be controlled directly by ColorGATE software, e.g. offset printers. These profiles can be used in ColorServer or proofing workflows or in external software.	RPFM	RPFM	RPFM	
DEVICELINK PROFILER Module (DLPFM)	For iterative optimization of the color transformation from a source to a target color space saved in a DeviceLink profile. It minimizes the color deviation (minimal Delta E) that depends on the measuring device and the visual impression.	DLPFM	DLPFM	DLPFM	
JDF Module (JDFM)	Interface according to the industry standard JDF V.1.1 for integration into workflow systems. Allows external systems to control the most important job parameters and supplies feedback on the production process. The data exchange takes place via hotfolder.	JDFM	JDFM	JDFM	
SCREEN PRINT PROOF Module (SPPM)	For production of digital color and screen proofs with appropriate inkjet systems. SPPM allows to simulate the print results of screen printing machines. Additionally the FilmGATE Module is needed.	SPPM	SPPM	SPPM	
CD PRODUCTION Module (CDPM)	Contains the functions Offset to center und Circular Cropping to ease CD printing processes.	No	No	No	
QUALITY CONTROL Module (QCM)	Ensures an accurate production of prints. Measuring of a special control wedge for checking the consistent output of correct colors.	QCM	QCM	QCM	

Supported measurement devices	List of the supported measurment devices
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GretagMacbeth	Eye-One, Spectrolino/SpectroScan, iColor	X	X	X
X-Rite	Pulse (DTP-20), DTP-22, DTP-70, DTP41/USB	X	X	X

Measurement device options	List of the measurement-specific options			
EYE-ONE iO Support	Support of the automatic scan table Eye-One iO from X-Rite, the meter for the Eye-One spectral photometer.	OPTION	OPTION	OPTION

A current list of the available printer drivers and output formats for PRODUCTIONSERVER4 PRO / SELECT / RASTER can be found in the enclosed sheet or on our website www.colorgate.com

Printer-specific options	List of the printer-specific options:			
WHITE INK Support	For use of white ink in suitable printers. Print output variants, including underprint, overprint and filling, can be configured.	OPTION	X	X
> WHITE INK Preview	Special preview modes for the different white print features.			
Print Monitor	Display of status values like ink levels and of status messages like warnings or error messages of the printer.	X	X	X

Supported interfaces	List of the supported interfaces:			
Parallel, Ethernet, TCP/IP, USB, Serial, SCSI, Firewire, Output folder	Subject to availability of the function on the printer.	x	x	x
TWAIN	Interface for direct control of TWAIN-capable scanners and digital cameras.	X	X	X

System requirements	List of the system requirements (minimum requirements):			
Operating systems	Windows XP/2003, data from MacOS/Unix/Linux can be sent via the virtual printer (PortMonitor).	x	x	x
Processors	Intel Pentium IV or comparable processors (Pentium III)	x	x	x
RAM	1 GB RAM (256 MB RAM)	x	x	x
Hard drive	120 GB hard drive (10 GB hard drive)	x	x	x
Network	LAN adapter - TCP/IP	x	x	x

Supported languages	List of the supported languages:			
Languages	Chinese, Danish, Dutch, English, Finnish, French, German, Italian, Japanese, Korean, Norwegian, Polish, Portuguese, Russian, Spanish, Thai, Turkish	x	x	x

Legend

- x = Feature included
- OPTION = Optional
- PHM = included in PHOTO&FINEART Module
- FGM = included in FILMGATE Module
- JDFM = included in JDF Module
- PCM = included in PRINT&CUT Module
- PFM = included in PROFILER Module
- PGM = included in PROOF Module
- SPPM = SCREEN PRINT PROOF Module