ColorFlow specifications

Supported Print Technologies	ColorFlow Software supports the following print technologies: • Offset printing (sheetfed, heatset web, coldset web) • Flexographic printing • Electrophotographic printing • Inkjet printing • Digital halftone proofing
Device Colorants	CMYK process printing, 5C to 7C extended gamut printing, and spot colors
Chart Generation and Measurement	ColorFlow Software generates and measures charts for device characterization using an integrated chart reader. Chart types include: • CMYK Color Characterization charts (based on IT8.7/4 chart) • CMYK Tonal Characterization charts • CMYK Tint Ramps for generating TVI-based curves (spot patch measurement or keyboard entry of data) • P2P51 and P2P25 for i1iSis, i1iO and i1Pro • TC1617x (i1iO) cf, TC1617x_H (i1iSis) cf and TC1617x_V (i1iSis) cf • Variety of built-in Kodak CMYK, 5C, 6C and 7C charts • Measurement Conditions M0, M1, and M2 (on supported devices)
Keyboard Entry of Data	Tonal Data entry for Tint Ramps can be done for: • Tint Ramps for generating plate curves • Tint Ramps for generating TVI-based print curves
Chart Data Import	Chart measurement data can be imported from the following applications: • Profile Wizard 4.0 (CGATS 1.7 format) • X-Rite ColorPort 1.54 (Mac), vTBD (PC) CGATS.17 format • X-Rite Measure Tool (CGATS 1.7 format) • X-Rite Profile Maker v5.0 (CGATS 1.7 format) • X-Rite MonacoPROFILER 4.8 (CGATS 1.7 format) • Heidelberg Prinect Image Control (CGATS 1.7 format)

Chart Data Export	Chart measurement data can be exported: • CGATS.5 tab-delimited text format • Export of average data for multi-sheet measurements
Supported Industry Standards and Specifications	ColorFlow Software includes characterization data for the following: • Characterized reference print conditions CGATS21-2-CRPC1 through CRPC7 • FOGRA 28–32, 39–54 • GRACoL 2006 Coated Type 1 • IFRA 26 • IFRA 30 • ISO 12647-2:2004 TVI Curves (A through H) • ISO 12647-2:2013 TVI Curves (A through E) • PSR Gravure HWC • PSR Gravure SC • PSR Gravure LWC • PSR Gravure MF • SWOP 2006 Coated Type 3 • SWOP 2006 Coated Type 5 ColorFlow Software includes ICC device profiles of PDF/X Output Intents registered at www.color.org.
Plate Curves	**Curve Generation** • Single-channel plate linearization curve, based on plate measurements, is applicable to all separations **Curve Export** • Export of Harmony Transfer Calibration Curves **Curve Editing** • Curve is recomputed when plate measurements are updated.

Print Curves	**Curve Generation** • CMYK Curves based on Tone Value Increase (TVI), Gray balance or G7 method • Extended Gamut Curves based on Spot Color Tone Value (SCTV) • Custom Spot curves based on Tone Value Increase (TVI) or Spot Color Tone Value (SCTV) • Mapping of other Spot color names to process ink curves • Generation of Custom Transfer Curves including CMYK, CMYK+ and Spot curve channels **Curve Import/Export** • Import and export of Harmony Transfer Curves **Curve Editing** • Editing of all curve types via numerical and graphical methods • Editing effect can be visualized through on-screen display of a user-selectable image (CMYK curves only) • ColorFlow Software includes unique gray-balance curve editing capabilities
Device Profiles	**Profile Generation** • CMYK ICC device profiles (v2 and v4) • 5C through 7C ICC device profiles (v4) **Profile Import/Export** • Import of ICC-compliant device profiles • Export of ColorFlow-generated ICC device profiles **Profile Editing** • Adjustment of CMYK(+) profile White Point, Input or Output Tonality • Adjustment of CMYK Dark Point, Gray Balance, and Selected Color

DeviceLink Profiles	**Profile Generation** • RGB-to-CMYK and CMYK-to-CMYK ICC DeviceLink profiles (v2 and v4) • 5C through 7C source and/or destination DeviceLink profiles (v4) **Profile Import/Export** • Import of ICC-compliant device profiles • Export of ColorFlow-generated ICC device profiles **Profile Editing** • Adjustment of CMYK(+) to CMYK(+) DeviceLink White Point, Input and Output Tonality • Adjustment of CMYK to CMYK Dark Point, Gray Balance, and Selected Color
Reports	• Print characterization report • Print comparison report for comparing one device response to another, or to a reference print condition • Verification report for comparing the response of a device with its curves and/or DeviceLink to the target response
Languages Supported	English, French, Italian, German, Spanish, Russian, Simplified Chinese, Japanese, Korean