

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 • Gravure
Device Colorants	CMYK process printing, 5C to 7C extended gamut printing, 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 and IT8.7/5 charts) • Built-in P2P25 and P2P51 charts for i1Pro, i1iO and i1iSis • Built-in P2P51 extended process characterization charts for i1Pro, i1iO and i1iSis • Built-in 5C, 6C and 7C charts for i1iO and i1iSis • Built-in Idealliance ECG characterization charts for X-Rite i1iO • CMYK Tonal Characterization charts • CMYK and spot color Tint Ramps for generating TVI- or SCTV-based curves (spot patch measurement only)
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- or SCTV-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 ink curves based on Spot Color Tone Value (SCTV) • Custom spot ink curves based on Tone Value Increase (TVI) or Spot Color Tone Value (SCTV) • Mapping of other Spot color names to process or custom spot 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, Traditional Chinese, Japanese, Korean