

ColorFlow specifications

Supported Print Technologies	<p>ColorFlow Software supports the following print technologies:</p> <ul style="list-style-type: none">• Offset printing (sheetfed, heatset web, coldset web)• Flexographic printing• Electrophotographic printing• Inkjet printing• Digital halftone proofing
Device Colorants	<p>CMYK process printing, 5C to 7C extended gamut printing, and spot colors</p>
Chart Generation and Measurement	<p>ColorFlow Software generates and measures charts for device characterization using an integrated chart reader. Chart types include:</p> <ul style="list-style-type: none">• 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	<p>Tonal Data entry for Tint Ramps can be done for:</p> <ul style="list-style-type: none">• Tint Ramps for generating plate curves• Tint Ramps for generating TVI-based print curves
Chart Data Import	<p>Chart measurement data can be imported from the following applications:</p> <ul style="list-style-type: none">• 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	<p>Chart measurement data can be exported:</p> <ul style="list-style-type: none"> • CGATS.5 tab-delimited text format • Export of average data for multi-sheet measurements
Supported Industry Standards and Specifications	<p>ColorFlow Software includes characterization data for the following:</p> <ul style="list-style-type: none"> • 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 <p>ColorFlow Software includes ICC device profiles of PDF/X Output Intents registered at www.color.org.</p>
Plate Curves	<p>Curve Generation</p> <ul style="list-style-type: none"> • Single-channel plate linearization curve, based on plate measurements, is applicable to all separations <p>Curve Export</p> <ul style="list-style-type: none"> • Export of Harmony Transfer Calibration Curves <p>Curve Editing</p> <ul style="list-style-type: none"> • Curve is recomputed when plate measurements are updated.

Print Curves	Curve Generation <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Import and export of Harmony Transfer Curves Curve Editing <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • CMYK ICC device profiles (v2 and v4) • 5C through 7C ICC device profiles (v4) Profile Import/Export <ul style="list-style-type: none"> • Import of ICC-compliant device profiles • Export of ColorFlow-generated ICC device profiles Profile Editing <ul style="list-style-type: none"> • Adjustment of CMYK(+) profile White Point, Input or Output Tonality • Adjustment of CMYK Dark Point, Gray Balance, and Selected Color

DeviceLink Profiles	Profile Generation <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> • Import of ICC-compliant device profiles • Export of ColorFlow-generated ICC device profiles Profile Editing <ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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