



Information Sheet

Curve4™ is available in three licensed levels, each including the functionality of the previous levels;

Curve4 VERIFY

Is the world's first dedicated compliance testing tool for the Idealliance G7 Master® program.

- Measure a test print or proof with a variety of automated spectrophotometers.
- Verify Pass/Fail status of a printing system for "G7 Grayscale", "G7 Targeted" or "G7 Colorspace".
- Verify Pass/Fail status of individual proofs using standard ISO 12647-7 control strips.
- Export measured data for G7 Master submission or use in other programs.

Curve4 CALIBRATE

Adds the ability to ...

- Calibrate any stable and repeatable printing system to G7.
- Use smaller P2P targets for faster calibration.
- Calibrate by the TVI method to ISO-standard or custom TVI curves.
- Calibrate "spot color" inks using the new SCTV method.
- Calculate ink restriction settings for ink-jet printing systems.

Curve4 COMPLETE

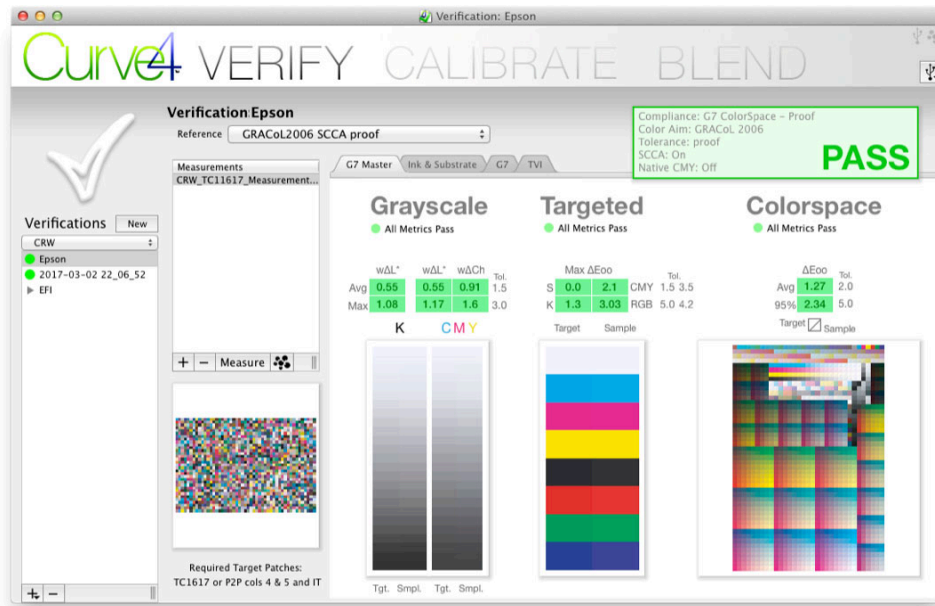
Adds the ability to ...

- Quickly re-calibrate with a small *ΔreCal* target.
- Calibrate without a P2P, e.g. with an IT8.7/4 or TC1617 target.
- Eliminate the cost of a second press run.
- Post-calibrate characterization data for virtually-perfect G7-compliant profiles.
- Reduce the effects of uneven printing in characterization data.
- Average characterization data from multiple prints and/or mixed target types.
- Adjust the white point of characterization data by the SCCA method.
- Adjust the black point of characterization data to improve profiles of uncoated or matte stock.
- Generate new targets from an initial target, e.g. export an IT8.7/4 data set from a TC1617.

The Verify Tool

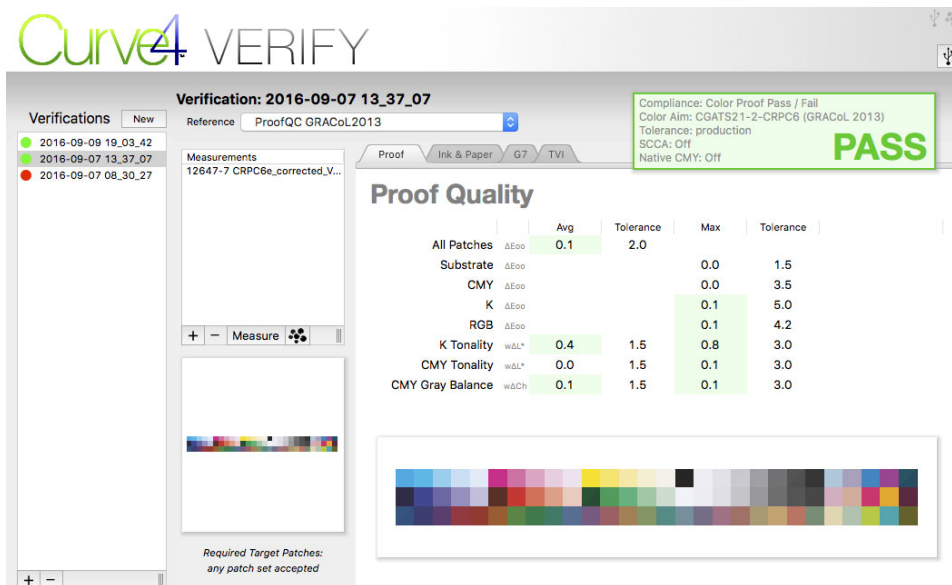
G7 Master Pass/Fail

Curve4 provides full Pass/Fail reporting for all Idealliance G7 Master conditions, with extensive analytical tools to quickly analyze and solve printing problems.



Individual Proof Pass/Fail

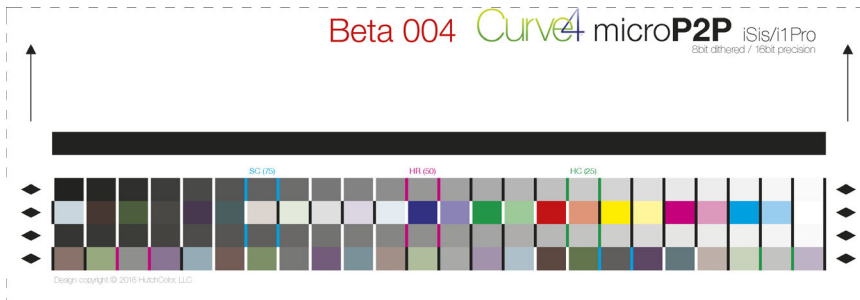
Individual proofs can be verified with a standard ISO 12647-7 control strip.



The Calibrate Tool

G7 Calibration

Curve4 works with legacy P2P25 and P2P51 targets, as well as new, smaller targets that are faster and take up less space on press, like the MicroP2P.

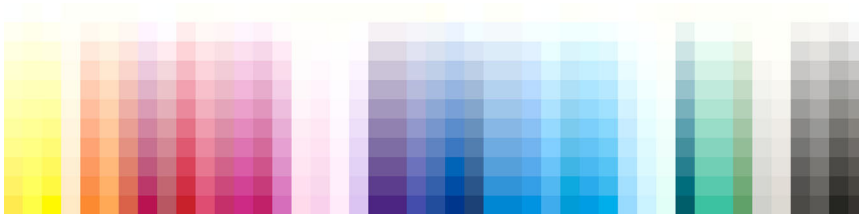


TVI Calibration

Curve4 calibrates to standard ISO 12647-2 (1994 or 2013) TVI curves, or your own custom curves.

SCTV (Spot Color) Calibration

Curve4 calibrates spot color plates by the new ISO-standard SCTV method, for more consistent and predictable results and a better match to the designer's expectations.



P2Pless calibration¹

With the Curve4 Complete license, Curve4 can calibrate from non-P2P targets like the IT8.7/4 or TC1617. So if you intend to create a custom profile, you don't have to print a separate P2P target, and less space is needed on press. As a bonus, the second press run is eliminated.

P2Pless calibration can G7-calibrate legacy characterization data printed before G7 existed, or data from foreign organizations such as Fogra. Curve4 (with COMPLETE license) will even calibrate from an existing ICC profile.

Delta re-calibration (Δ reCal)*

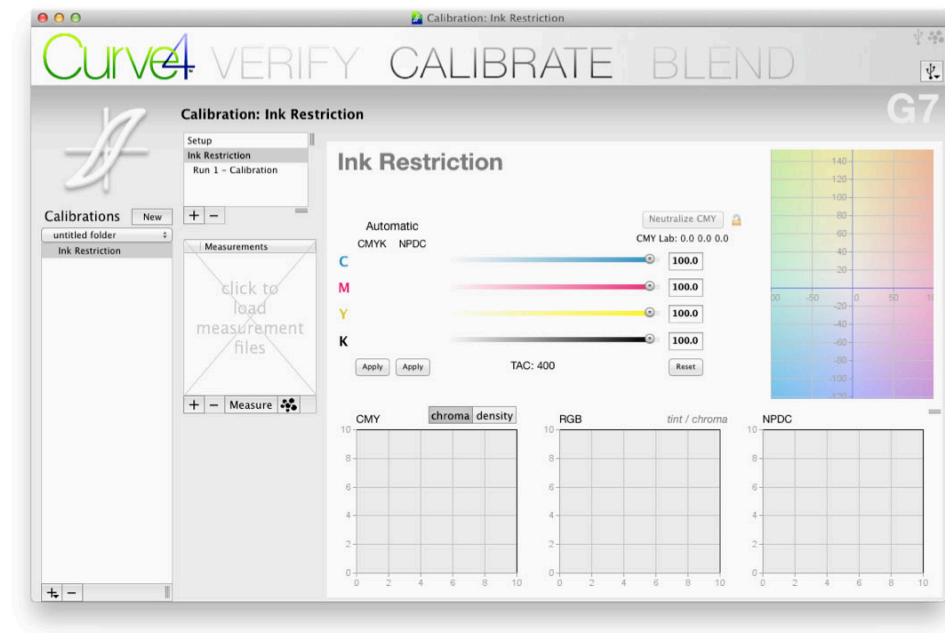
Δ reCal replaces a full P2P target with a small Δ reCal target printed on a live job that can restore a press to optimum G7 compliance without the time and cost of a new G7 calibration run.



¹ Items with an Asterisk (*) require the COMPLETE license.

Ink Restriction calculator

Curve4's *Ink Restriction* function calculates suggested maximum CMYK percentages for ink jet printing systems. These *Restriction percentages* can be applied in the RIP or in Curve4's *Control Point* values.



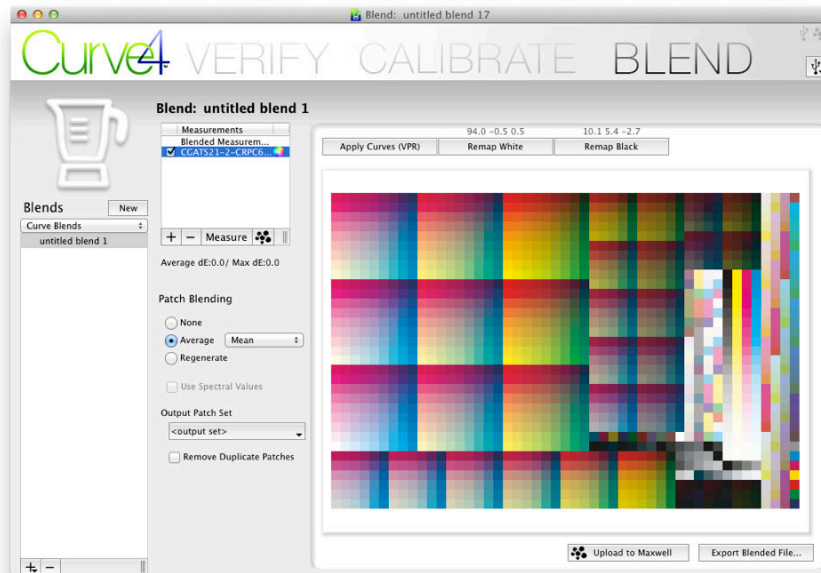
Virtual Press Run (VPR)*²



VPR saves time and money by eliminating the need for a second press run to create a profile. Instead, the raw characterization data from the first run is post-calibrated, which eliminates differences between the first and second run and produces more accurate profiles.

² Items with an Asterisk (*) require the COMPLETE license.

The Blend Tool



The Blend tool (requires COMPLETE license) modifies characterization data in several ways, including;

- Averaging and smoothing multiple datasets
- Re-mapping a dataset's white point by an enhanced SCCA method
- Re-mapping a dataset's black point to improve visual accuracy of uncoated profiles
- Post-calibrating a dataset with G7 or TVI curves
- Regenerating new target files with patches not in the original data.

Data Averaging and smoothing

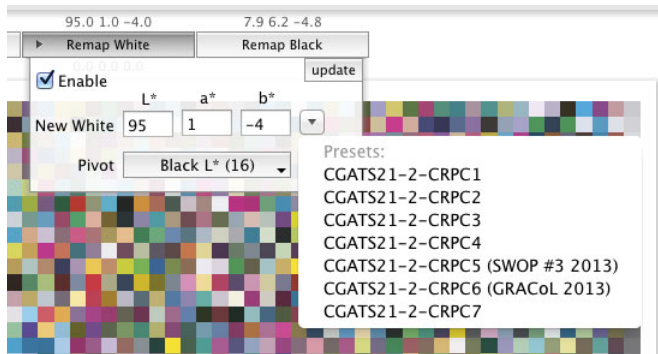
Averaging minimizes press variation across the target, for smoother ICC profiles.



Banding from a profile made from noisy data (left) and after smoothing (right)

Remap White (SCCA)

Remap White approximates the effect of printing on different colored substrates, using the standard SCCA method, with some enhanced features that are unique to Curve4.



Remap Black

Remap Black improves the visual accuracy of proofs simulating matte or uncoated substrates (which normally look “washed-out”) by approximating the effect of a polarized instrument.



Appearance of an actual newsprint sample in a viewing booth (left) and its typical washed-out proof (right).

Measuring Device Compatibility

All levels of Curve4 can measure directly with multiple spectrophotometers, including;

- Barbieri Spectro LFP
- Konica Minolta FD-9
- Techkon SpectroDens
- X-Rite i1 Pro versions 1 & 2
- X-Rite i1/iO versions 1 & 2
- X-Rite i1iSis versions 1 & 2

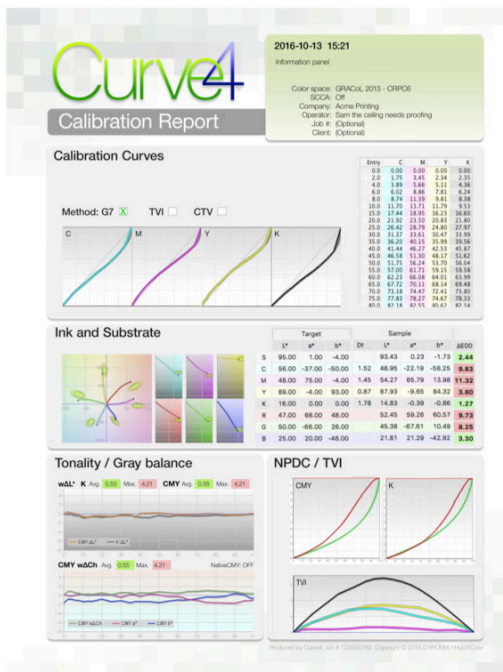
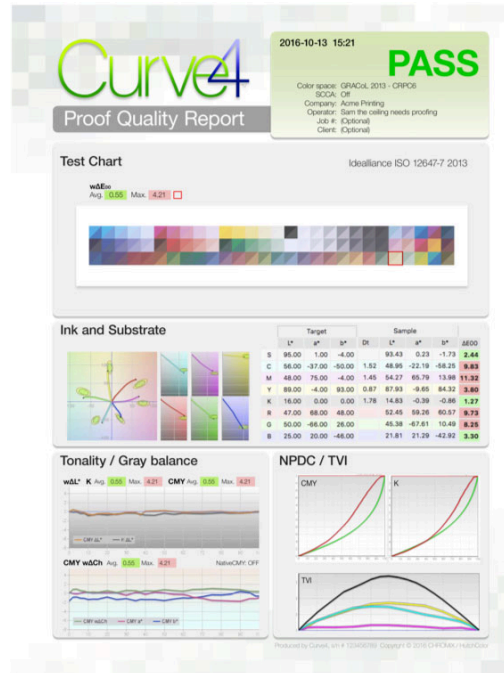
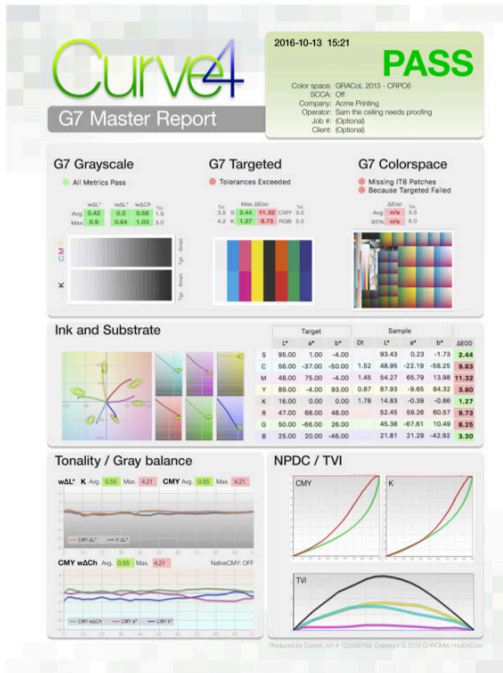


Printable Reports³

The **G7 Master Report** records the results of a printing system G7 Master Verification.

The **Proof Quality Report** records the results of an individual Proof Verification.

The **Calibration Report** is a convenient way to record or transport curve point values to a RIP.



³ The number of reports available depends on license level.