# CCC
## Closed Loop Color Control

## THE MOST USER FRIENDLY AND ACCURATE CLOSED LOOP COLOR CONTROL

*CCC is a versatile Closed Loop Color Control that is used on a web offset printing press for scanning and correcting color values on the run. The system can communicate with a wide range of press controls to make color adjustments. On older presses, we supply fountain controllers to drive existing ink key actuators, eliminating the need to make expensive ink fountain upgrade.*

### OPERATING PRINCIPLE

CCC utilizes state-of-the-art video imaging technology. Each print unit prints simple rectangular color patches corresponding to each ink key in the print units. Each time the color bar passes under the imaging assembly, a custom LED strobe illuminates the color bar area for microseconds and an image is grabbed with a color camera. The CPU recognizes the color bar patches from the image and accurately calculates the color value of each patch. Based on these values, the CPU sends commands to remote processors for adjusting individual ink keys.

### SPEED AND ACCURACY

CCC is designed for press speeds up to 100,000 impressions per hour. For a typical printing press with 22.750" repeat length, this translates into a process speed of over 3000 feet per minute. The system scans the web up to 16 times faster than the conventional individual patch reading controls.

## DEVELOP. INNOVATE. EVOLVE.

Innolutions has been providing Web Printing Control solutions to the printing industry to reduce waste & improve print quality for more than 20 years.

### INQUIRE ABOUT OUR OTHER PROCESS CONTROLS

- Color Register Control
- Cutoff / Circumferential Register Control
- Web Guide System
- Web Break Detection System
- Ink Leveling System
- Ink Presetting System

....another innovative solution by

## innolutions

## REDUCE MAKE-READY WASTE, IMPROVE OVERALL QUALITY AND BOOST YOUR BOTTOM LINE

## ADDITIONAL BENEFITS

### REDUCED WASTE

Self learning ink fountain presetting is an integral part of CCC. With the included fountain presetting feature, CCC can significantly reduce startup waste and provide consistent quality throughout run. Combined with a very attractive price, this can result in a very quick payback.

### PREPRESS INTERFACE

The system interfaces with your prepress computers directly and can analyze job requirements in various industry standard formats.

### INK SWEEP CONTROL

The system can not only preset the ink keys but it can also choose optimum ink sweep settings. Operator can override the recommended ink sweep settings. In addition, CCC can adjust ink sweep in automatic mode to keep ink keys and ink sweep balanced.

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## FEATURES

• Color bar patches can be as small as 1.5mm x 3.5mm ( 0.06" x 0.14") or any other standard size.
• Available for a maximum of 10 print units, 2 web (4 surface) configuration and up to 72" wide web width.
• Unique Image Pattern Recognition is very tolerant to misregistration.
• Excellent tolerance to blanket wash print disturbance.
• Auto tracking for immunity to web tension changes and lateral weave during splice cycle (+/-0.5"/12mm).
• Automatically finds and tracks colorbars without additional locator marks.
• Supports PMS colors.
• System tracks Solid Ink Density, Dot Gain, Print Contrast and Grayness.
• Utilizes existing motorized ink keys, minimizing installation cost and down time.
• Small format camera stand for easy incorporation into existing press configuration.
• CIP3 file analysis for preview and fountain presetting.
• User programmable paper library.
• Integrated spot densitometer with programmable regions of interest for color verification.
• Real time color bar image display during scan cycle.
• Graphical and Numerical readout is available in both real time and post job reports.
• Statistical quality reporting with quality alarm.
• Optional sweep and water control interface.
• Virtually unlimited number of jobs can be stored.
• Job files store ink key position, target density on each key, ink sweep and water settings.
• The easiest to learn user interface.
• Online context-sensitive animated help.
• Flat Panel energy efficient Touch Screen operation.
• Practically maintenance free imaging assembly .
• 100,000+ hour average LED strobe life.
• Majority of system components are commercially available from various sources.
• Optional multiple operator consoles available for remote operations.

*\* Specifications are subject to change without notice*

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