

TECHKON ChromaQA™

Quality Assurance for Color Production

Techkon ChromaQA provides digital, flexographic and packaging printers with a powerful set of tools designed to monitor the color quality of the job on press and to reduce the number of re-makes by detecting problems early in the print production process. ChromaQA gives users the ability to set color tolerances for Density, Delta E and Dot Gain, providing immediate feedback on how well the job is conforming to customer tolerances. It also provides detailed trending and statistical reports via the Internet or a company's Intranet – either in real-time, or at the completion of the press run. The detailed trending and statistical reports help identify press maintenance issues and track ink performance.

TECHKON ChromaQA™ CLOUD QUALITY ASSURANCE SOLUTION

There are two editions of ChromaQA software: Standard and Cloud. The Standard edition is for single seat installations that do not require remote access. The Cloud edition allows larger organizations with multiple presses and print facilities to remotely manage and monitor customer jobs via the Internet or the firm's Intranet. This provides the ability to remotely monitor the color quality of multiple jobs in real-time, in multiple locations, using a web browser, smart phone or tablet.

MONITORING THE PRESS RUN

The ChromaQA Cloud edition enables an operator to setup four levels of permissions: Level 1 is designed for the administrator and allows unlimited access to manage all files on the server. The Administrator can add, edit or delete users and configure Levels 2, 3 and 4 permissions to provide users with varying levels of access. This edition can be installed on a company's Intranet or hosted by Techkon. Throughout the press run, ChromaQA collects color data and displays an intuitive graphic and numeric display of the measured colors on the monitor. The data can be viewed in multiple formats including:

Single Sheet Snap Shot – up-to-the-minute reporting of print job performance – either via the Internet or company Intranet. Report includes delta E, density and dot gain derivation from the tolerance values.

L* a* b* Color – visual color analysis displays the target reference color against the printed sample color, alerting the operator to an out-of-tolerance condition, and recommending an action to correct the deviation.

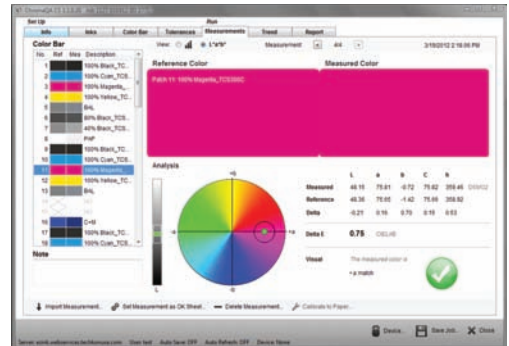
Statistical Reporting – generate detailed reports for a single press run, or multiple press runs of a job, for internal quality control personnel, press room manager or the print specifier.

Trending – ChromaQA provides a unique analytic tool letting users run in-depth trend analysis of specific colors in print jobs that are printed on multiple presses, across different facilities and that are printed on a recurring basis. Follow the performance trend of these jobs over time and easily identify areas that need improvement, such as ink supply issues, press specific mechanical problems or overall improvement in process control guidelines.

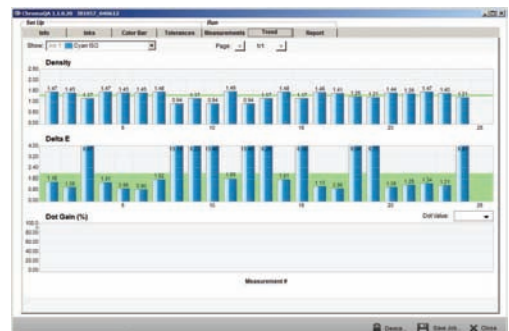
Exporting – reports printed or exported to PDF or Excel CSV format.



Color Measurement



Single Color Analysis



Job Trending



Multi-Plant Job Trending

TECHKON

MANAGING COLOR LIBRARIES

The versatile color library management system offers users the ability to easily create, edit and manage multiple color libraries so that a print job being printed on multiple presses, or in multiple plants, is using the same target reference color tolerances and values. The ability to import and export color libraries to common formats, such as MIF, CXF, CXF3, TCB, INK and Excel CSV makes it highly compatible with ink formulation and third-party color management applications. It helps to analyze and discover ink formulation errors and ensure they are formulated correctly before the press starts printing.



Main Menu

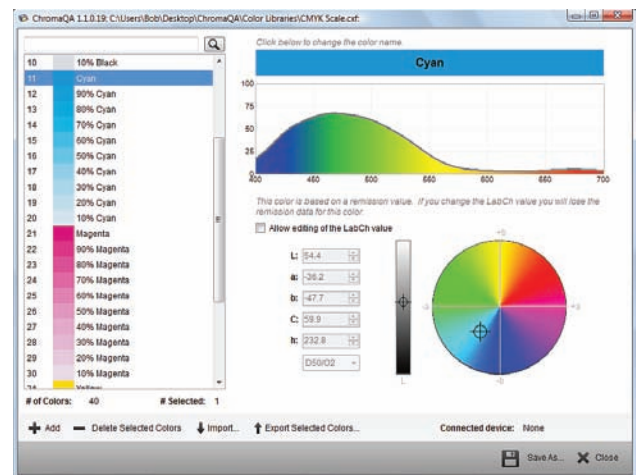
CREATING A CUSTOMER JOB

An intuitive four-step job configuration process enables users to create a customer print job that contains all requisite information to print that job, via a Cloud server, or on a local workstation. At press time, the operator loads the customer job to ensure the quality of the job meets customer requirements.

1) Print Job Information – All customer specific job information including name, job ticket number, press, operator, time, date and remarks.

2) Selecting Inks – An intuitive interface where users select the ink colors to be used. This is done by importing color libraries – either customer-specified or industry standard – or by using a spectrophotometer to measure the color values directly into ChromaQA. The ability to import colors from industry standard file formats, such as MIF, CXF, CXF3, TCB, .INK and Excel CSV makes it easy to select the correct colors.

3) Color Bar Configuration – Creating a new color bar with the WYSIWYG color bar configurator is simple. Building single or multiple row color bars and designating the patch values is accomplished with just a few clicks of a mouse. Operators can save configured color bars for use in other print jobs, eliminating the need to create a new color bar for each print job.



Color Libraries

4) Customer Specified Color Tolerances – Defining the color tolerances is as easy as typing in the correct density, dot gain, $L^*a^*b^*$, and ΔE values. Convenient pull-down menus allow you to select the correct Density Filter, Illuminant and Observer and ΔE Formula. You can also choose previously created tolerance settings used in other print jobs.

SYSTEM SPECIFICATIONS

Operating systems: Microsoft Windows 7, Vista, and XP

Memory requirement: minimum of 4 Gbytes

Communication: minimum of 2 USB ports

Spectrophotometer direct connection: all Techkon products. Connection to other spectrophotometers thru virtual keyboard

Data reporting: Delta E 1976, Delta E 2000, Delta CMC, Density, DotGain

Data Base: Microsoft SQL

Ink library format: MIF, CXF, CXF3, TCB, INK, Excel CSV

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