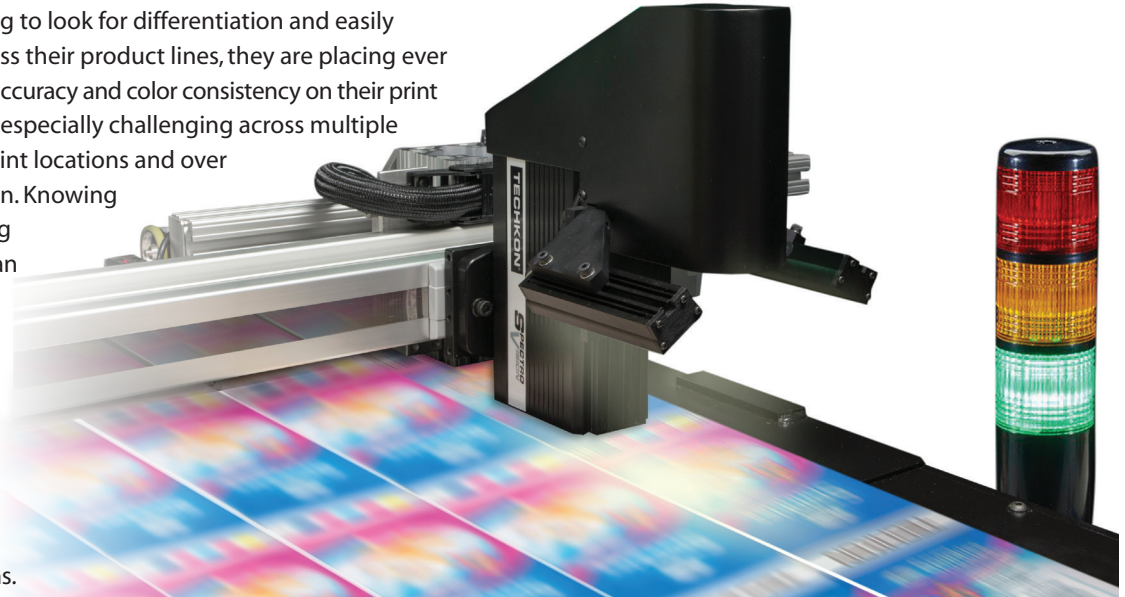# SPECTROVISION

REAL-TIME COLOR RESULTS ON PRESS.
IMPROVED QUALITY, PRODUCTIVITY, AND SAVINGS IN YOUR PRESSROOM.

MORE DEMANDING CUSTOMERS

With brand owners continuing to look for differentiation and easily identifiable brand colors across their product lines, they are placing ever increasing demands for color accuracy and color consistency on their print supply chain. Repeatability is especially challenging across multiple substrates, print processes, print locations and over me from press run to press run. Knowing this, brand owners are holding printers more accountable than ever; asking for color quality data to prove each job's adherence to agreed upon color specifications. For printers, achieving these exacting requirements means longer make-ready times, increased waste and, ultimately, lower profit margins.

MOST AUTOMATED COLOR QUALITY SOLUTION

The SpectroVision is a color measurement solution that can be installed on flexo and gravure presses for real time color measurements during the press run. Its highly accurate, full 31-point spectrophotometer is guided by a high resolution digital camera to find the exact location of color patches, color bars, and specific in-image measurement locations.

The spectrophotometer provides spectral, CIELab, density, and dot area information for color locations. The included Techkon ChromaQA color quality software allows users to create jobs that specify the exact measurement locations, color reference values, and customer specific tolerances. Press operators can then run jobs and get immediate, real-time, color results including density, CIELab, and tone-value, along with recommendations

to optimize color matching results and live trend graphs of color performance metrics across the job. In addition, QA managers can create customized reports for customers and analyze the measurement data across press runs, shifts, operators, locations, etc. for further process improvements and increased savings.

FEATURES & BENEFITS

▶ The small footprint of SpectroVision allows it to be easily mounted onto a wide variety of printing press types and configurations

▶ Measures in real-time at press speeds up to 305 m/min (1,000 ft/min) which shortens make-ready cycles and increases profitability by eliminating the need to stop the press for handheld measurements

▶ Automatically measures according to the time, distance, or impression interval set by the user for increased color consistency throughout the entire press run

▶ Capable of measuring color patches, color bars, and even specific in-image locations for a higher degree of color accuracy where color matters the most – in the image

▶ Provides operators instant feedback regarding key print attributes and specific ink adjustments to minimize deltaE's and maximize the color accuracy of brand colors and customer color specifications

▶ Detects color shifts before they go out of specification, making them easier to correct, eliminating waste, and increasing customer satisfaction

▶ Optional horn and light stack prompts operators to intervene immediately ensuring color consistency throughout the press run

▶ ChromaQA color quality platform utilizes a client-server based architecture to connect multiple users, multiple presses and multiple print locations ensuring consistent results

▶ Easy to use software interface minimizes operator training

▶ ChromaQA print jobs can be created outside of the pressroom and prior to production, reducing complexities for press operators

▶ Create customized reports for customers and utilize powerful data analysis tools to learn from your production data for further process improvements and cost savings

▶ Supports Schawk's ColorDrive print quality platform with 2-way communication for real time, live job scoring and data submission

SPECTROPHOTOMETER SPECIFICATIONS:

▶ Measurement technology: Spectral remission and color density determination to ISO 5-3/4

▶ Measurement geometry: 45/0˚ to DIN 5033

▶ Spectral range: 400 to 700 nm in 10nm steps

▶ Measurement conditions: ISO 13655:2009
   • M0 – No filter, UV included
   • M1 – Daylight, D50
   • M2 – UV Cutoff filter, UV excluded

▶ Measurement aperture: 1.5 mm x 3.0 mm

▶ Distance from media: 3 mm

▶ Light source: LED pack

▶ Short term repeatability: 0.05 ΔE_{ab} on white BCRA tile

▶ Inter instrument agreement: 0.30 ΔE_{ab} average on BCRA tiles

▶ Calibration: Automatic on integrated ISO white reference plaque

▶ Operating environment: 0˚ to 40˚ C (non-condensing humidity)

TECHKON