

InkZone Move Digital & Flexo

InkZone Move, already an established color measurement solution for commercial print applications, is now available in a format specifically designed for digital and flexo printing applications. InkZone Move Digital & Flexo is both cost-effective and easy to use. The Eye-One measurement device from X-Rite is an integral part of the system and supports both manual and automatic

measurements. Digital and Flexo printers now have a complete package for quality control and color consistency with a never-before seen price-performance ratio.



Flexible use and simple operation

The InkZone Move Digital & Flexo (IZM Digital & Flexo) solution works both in manual and automatic mode. For manual monitoring, the user can measure single elements across the substrate width during makeready or production. Once measured, the color results are displayed both graphically and as numeric values using the included IZM Digital & Flexo software. Measured results are compared to colorimetric tolerances which can be tailored to individual customer or process requirements.

IZM Digital & Flexo is equally well-suited for automated measurements via the Eye-One and the optional DC2/4/8 motor drive. For each measured color, the operator can evaluate solid and tonal density to ensure highlights, mid-

tones and shadows are reproduced within pre-established tolerances. In addition, neutral gray can be evaluated to assess color balance between primary process colors. All measured patches are represented in an additional chart as Delta E deviations from the target color. At a glance, the IZM Digital & Flexo software shows if the measured color values are within the established tolerances so that corrective action can be taken.

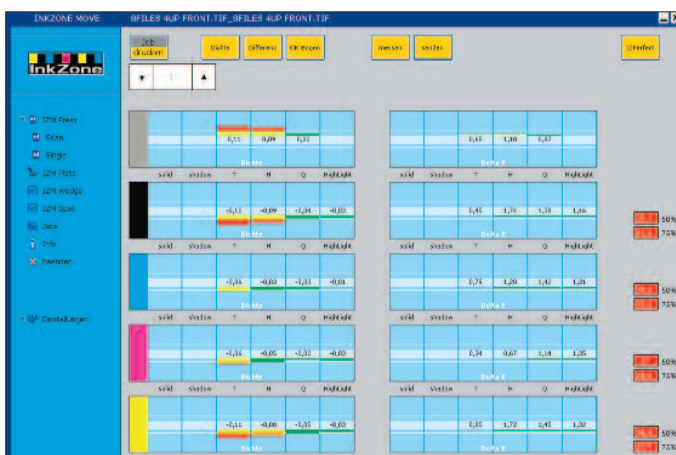
Communicating Via JDF

A key feature of the IZM Digital & Flexo measuring system is the clever support of the Job Definition Format (JDF). Using JDF, IZM Digital & Flexo can take advantage of information previously entered into a Management Information System (MIS), in order to automatically create

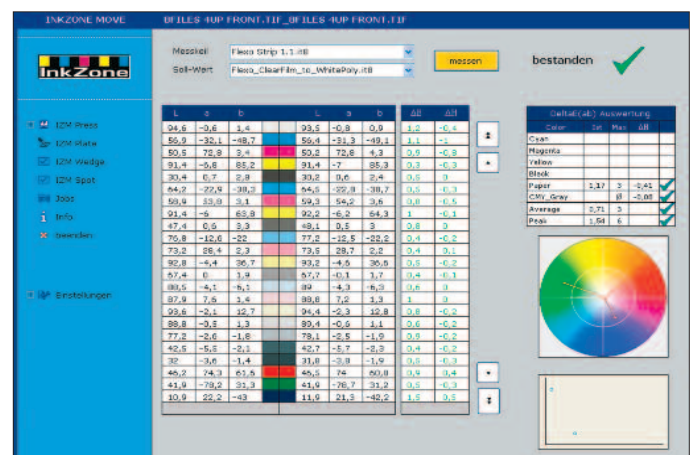
job information such as customer name, job number, as well as color names and values. Once created, color reference values for different job substrates are saved in a centralized library, along with all measured data. JDF can be used to access this information and combine it with other job or customer information for reporting, data analysis and quality control.

Quality and Reliability

IZM Digital & Flexo is the only solution on the market that requires a single, comparatively-inexpensive, scanning device for both manual and automatic measurements. Unlike many other solutions in the market, IZM Digital & Flexo is specifically tailored to the needs of flexo and digital printers in order to maintain high quality with an uncom-



InkZone Move Digital & Flexo: all relevant data for the process run and quality checks are displayed within seconds.



Simple presentation compares actual and target values for all color patches.



Fully automatic measurements with the Eye-One from X-Rite and the optional DC 2/4/8 motor drive.

plicated solution. The objective measurement of color control patches guarantees process results based on data and tolerances, not on visual assessment and subjective press adjustments. Using IZM Digital & Flexo can help bring consistency based on metrics to digital, packaging and label printers, reducing costs and increasing quality.

Technical Specifications for Optional Motor Drive DC2/4/8

- electrical drive for automatic measurement of printing control strips
- DC2/4/8: maximum scanning and paper length 54 cm/21" (DC2); 77 cm/30" (DC4); 106 cm/41" (DC8)
- 1 free USB port with sufficient power supply for the Eye-One measuring device
- 1 free serial RS232 port for the drive control

The Advantages of InkZone Move Digital & Flexo

- Use of the X-Rite Eye-One in the pressroom allows an inexpensive, market-proven, spectrophotometer to take the place of more expensive instruments used in competitive systems.
- The scanning process is fast and effective, and assures accurate measuring results
- All color parameters can be measured easily with a single scan of a color control bar
- The software displays both graphical and numerical values on a single screen for easy interpretation and press color adjustment.
- Data exchange is fully supported, based on industry-approved standards (JDF, XML, ASCII)
- Job files can be imported from many MIS solutions in XML format (customized formats can also be configured)
- The system allows manual measurement of color tones at any position across the substrate width providing analysis of maximum Delta E and average Delta E (average deviations over the whole production run)
- Graphic representation of spectral curves allows for easy comparison between proof and press run.

Technical Requirements

Hardware, Operating System, Software Applications

- Eye-One spectrophotometer from X-Rite (firmware B, C, D or higher; version A not applicable)
- Microsoft Windows XP Professional or Vista Business
- Microsoft .Net Framework 3.x or higher
- 1 free USB port for the hardware protection key (dongle)
- 1 free USB port with sufficient power supply for the Eye-One measuring device
- 1 free serial RS232 port for DC2, DC4 or DC8 electrical drive
- touchscreen monitor (19" or larger) strongly recommended

Technical Data InkZone Move Digital & Flexo

Scan Function (Automatic Measuring Procedure)

Visualization of a complete color chart and of five tonal patches for up to twelve ink colors

- as density values
- as Delta E
- as gray balance

Single Measurement (manually)

Visualization of the difference between target value and actual value with reference to

- lightness
- color hue angle
- Delta E

Numeric Readout

- as Delta E
- as LAB value

Monitoring of

- LAB coordinates of primary colors CMYK ($L^* a^* b^*$)
- dot gain of 20%, 40%, 60% and 80% patches
- variation of tonal values
- spot colors measurement

Further Functions

- control compared to target values
- control compared to a measured proof
- file backup of measurements to a centralized location (ASCII/XML)
- output of measurement logs using standard reporting software
- graphic visualization of measured data (2-D CIELAB plot, Dot Gain)

Color Bars

Individual color bars for digital and flexo printing are included. User-defined color bars are also supported. Patch sizes must be a minimum of 5 mm in the scanning direction.

Setting Target Values

Target values for each print substrate are specified by the user

Digital Information

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