

InkZone Move

Finally, a comprehensive solution for the automated measurement and control of all the stages of the sheetfed printing process: InkZone Move can automatically measure your proof, printing plates and printed press sheets, all using a single, cost-effective, scanning spectrophotometer. Never before has such an affordable, ingenious solution been developed to incorporate three applications, available as separate

licenses or as a full suite: InkZone Move Press (IZM Press) for color control, measurement and visualization while on press; InkZone Move Plate (IZM Plate) for measuring surface coverage from printing plates; and InkZone Move Wedge (IZM Wedge) for evaluating control strips on color proofs.



IZM Press: Fast, Simple Color Checks for any Press Operator

When it comes to color control, IZM Press will make easy work of color evaluation in the pressroom. Leveraging the X-Rite EyeOne spectrophotometer, scanning a color bar is a simple sequence that's precise, quick and accurate. Thanks to the spectrophotometric engine, the IZM Press system goes beyond the limits of CMYK and provides dependable data to control important spot colors as well.

In semi-automatic mode, the included straight-edge guide assures smooth and steady measurement of your color bar – the result is precise measurements every time that can be counted on for keeping the entire print run under control. In addition, IZM Press documents all of your results, allowing you to conform with customer requirements or to verify adherence to industry standards like ANSI/ISO or specifications like GRACoL and the G7 approach.

Visual and Numerical Process Control

With IZM Press, your printing process is always in full view. The graphic interface allows you to visualize the results of each measurement on screen, with graphics that are easy and quick to interpret. The control screen shows the ink key zones for each press unit along with the relevant color data including density (absolute and relative), dot gain, gradation, and colorimetry (CIELAB and Delta-E).

And for documentation or further analysis, all measured data is continuously saved in easy-to-read, industry-standard XML format, ready for importing to any standard reporting software.

Full Automation on any Press Model

IZM Press supports a wide range of sheetfed offset presses from most every recognized manufacturer. That means we have a system that will work for you. IZM Press covers formats ranging from DIN A3 (52 cm or 20 in) to machines in the 70 cm (28 in) and 100 cm (40 in) width. For the small 52 cm and 70 cm formats, semi-automatic hand-scanning of the color bar (using the included precision guide) is the simplest and most efficient approach. But for larger sheet sizes, or for more convenience, IZM Press can be equipped with a digitally-controlled motor, which fully-automates the measurement. Get the DC2 for 2-up presses, DC4 for 4-up sheet sizes, and the DC8 for larger 8-up sheet sizes. This automation takes the accurate, hand-held, EyeOne from X-Rite and transforms into an automated pressroom workhorse.

Even More Functionality – Expand IZM Press into Closed-Loop Inking

Now the press operator has an intelligent choice, either rely on the process control information provided by IZM Press as



The measuring system can be equipped or retrofitted with a motorized digitally controlled (DC) drive. The DC module can be obtained in the DC2 (2-up, A3 format), DC4 (4-up, A2 format) and DC8 (8-up, A1 format) versions.



Manual measurement of the color bar using the straight-edge guide is the best and most efficient solution for the 37 x 52 and 50 x 70 cm formats.

an aid in maintaining critical colors at their optimum level, or take it to the next level and close the loop. With the addition of InkZone Loop we add the benefits of automated ink key adjustments which correct for any color variations identified by the IZM Press spectral measurements. And we can add this for you at any time as an upgrade. For the first time ever, the same type of capability offered on larger or newer presses can now be added at a fraction of the big-press solution cost. With full automation, closed-loop feedback, and a cost-effective price point, most any press can justify IZM Press and InkZone Loop in a relatively short time through benefits realized during the pressrun.

IZM Plate: Easily Verify Plates to Ensure On-Press Performance

Printing plate imaging is often overlooked in the production workflow, and this oversight can be costly in terms of press time and materials. And when a plate-related problem is discovered, fixing it can be an equally big challenge. Fortunately, IZM Plate can help close this loophole. In a similar approach to IZM Press, a control wedge on the printing plate can be measured and in a few seconds. IZM Plate analyzes the measuring wedge in 5% or 10% steps, displaying the results for each plate on the screen both visually as a curve as well as numerically as dot percentage.

GAMUT

IZM Plate has been designed for effective use with either metal or polyester plates. It's a unique solution that is as fast as it is accurate, allowing you to confidently deliver plates to press that will get the job done. As with IZM Print, each sequence of measured values is saved automatically by IZM Plate in standard XML format. Using the export function, the data can be transferred to any standard software application that can support the XML format.

IZM Wedge Validates Proof to Press Accuracy

The InkZone Move Wedge module evaluates proofing control elements according to target values called out in industry standards, applicable specifications, or according to your own shop guidelines. In addition to popular proofing media wedges issued by trade organizations, the extended control wedge included with IZM Press provides a respectively reliable method for controlling the print run. After scanning and evaluating the measured data, IZM Wedge displays the results taking into account the substrate. The printing result can be checked quickly and accurately against a predetermined set of standard values using either CIELAB color space or a characteristic printing curve.

A Meaningful Evaluation

InkZone Move Wedge is definitive when converting the measured proofing data into numeric tables and various graphic illustrations. In addition to a table format, the measured values can be graphed as dot gain curves, or primary and sec-



In addition to controlling the imaging device – a standard feature in any quality-minded operation – IZM also brings maximum efficiency and accuracy when calibrating the CtP system.

ondary color positions in CIELAB color space. With the included CIELCH capability, you can evaluate results based upon the hue (H*) independent from the color saturation/chroma (C*). This series of information immediately reveals whether or not the printing result is within the permitted tolerances, as well as the extent to which a color tone deviates from the predetermined target value. IZM Wedge provides reliable information about the feasibility of obtaining a proof using a specific set of printing colors, and the necessary corrective measures.

Efficient Quality Assurance

With its three software modules for Press, Plate and Proof Wedge, the InkZone Move suite offers an economical, comprehensive set of tools for color

The motorized DC drive enables automatic scanning with X-Rite's EyeOne for the very first time.



consistency and uniformity across all stages of the sheetfed offset print process. For a modest investment, users can realize significant savings due to fewer costly color-related issues and faster response time to any issues that do arise.

By providing objective, measurement-based evaluation of the proofing media wedge, printing plates and press-sheet color bar, InkZone Move delivers a comprehensive approach to controlling all of the factors relating to quality sheetfed offset printing.

And as the industry's first, integrated aftermarket solution, InkZone Move has the capability to unite otherwise incongruent solutions from multiple system providers at each stage of the process. In this way, the full process can be controlled using a single, comprehensive approach. When paired with the benefits of automation and affordability, it's hard to envision a packaging or commercial printing environment that wouldn't realize a substantial benefit from the use of the InkZone Move solution.

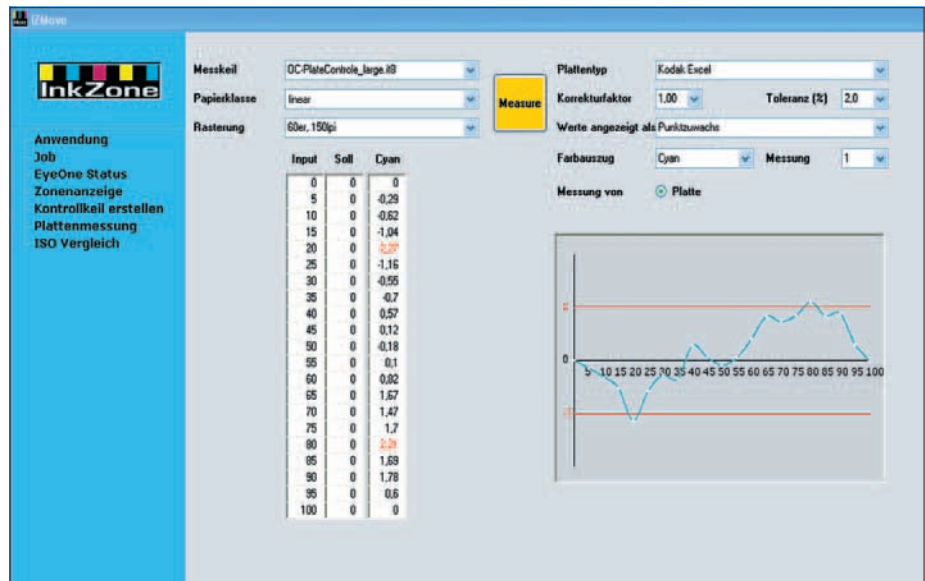
Technical Requirements

Hardware, Operating System, User Software

- Eye-One spectrophotometer from X-Rite (firmware B, C, D or higher; not version A)
- 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 for EyeOne measuring device
- 1 free RS232 series connection when using DC2, DC4 or DC8 electrical drive options
- Touchscreen monitor (19" or larger) strongly recommended

Technical Specifications DC 2/4/8 (Motor Drive)

- Electrical drive for automatic measurement of the printing control strip
- DC2 for maximum scan and paper lengths of 54 cm/21"
- DC4 for maximum scan and paper lengths of 77 cm/30"
- DC8 for maximum scan and paper lengths of 106 cm/41"
- 1 x series port (RS232) for the drive control
- 1 x USB port with sufficient power supply for the X-Rite EyeOne



Quality control at every step of the process:
Printing plate evaluation with InkZone Move Plate

Technical Specifications

InkZone Move Press (IZM Press)

Visualization and Checking of

- Deviation from full color densities (CMYK)
- Deviation in Delta E
- Dot gain
- Gradation

Further Functions

- Control according to target values
- Control according to proof sheets
- Back-up of each individual measurement (ASCII/XML)
- Output of a measurement log using standard software
- Connection to InkZone Loop (closed-loop ink control and digital presetting)

Measuring Wedges

- Measuring wedge with 5 mm edge length per patch

Measurement Specifications

- Individual predetermined density values
- Dot gain in line with industry standards

InkZone Move Plate (IZM Plate)

For Ascertaining

- Dot gain curve
- Correction curve for imaging device
- Deviation from target value

Further Functions

- Back-up of each separate measurement (ASCII/XML)
- Output of measurement log using standard software

Measuring Wedges

- Stepped measuring wedges (5% and 10%) for EyeOne
- Measuring strips according to customer specifications (option)

Measurement Specifications

- Dot gain in line with industry standards
- Specifications according to company standard (option)

Plate Material (Substrate and Coating)

- Polyester plates
- Aluminum plates
- Diazo coatings (UV-sensitive coatings)
- Thermally sensitive coatings

InkZone Move Wedge (IZM Wedge)

Monitoring of

- Primary CMYK (L*a*b*) color positions
- Dot gain in 20%, 40%, 60% and 80% patches
- Gradation
- Special color tones

Further Functions

- Graphic visualization of the measured data (2D CIE-L*a*b* color space, dot gain)
- Back-up of each separate measurement
- Outputting of measurement log
- Measurement within the printed design (dependent on prepress)

Measuring Wedges

- Media wedges from standards institutes (not included in package)
- Press control wedge (special wedge included in the InkZone Move Suite)
- ECI2002
- Special color specifications from InkZone Move

Measurement Specifications

- Values for full color densities and secondary colors in line with industrial standards
- Dot gain values
- Measurement values according to standard references
- Tolerances according to specific customer specifications
- Specifications according to company standard