BETA FLEXPRO

Flexo Plate & Image Analyzer

The Precise & Productive Tool For Today's Flexo

Measure HD FLEXO WITH 3D IMAGING

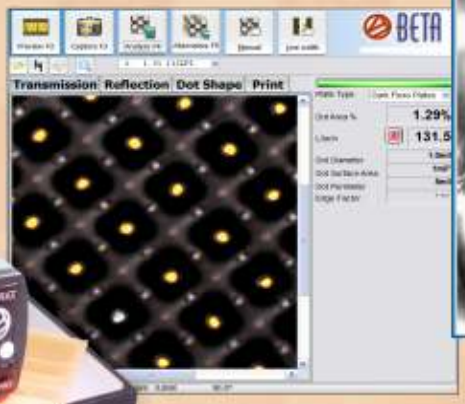
Flexo Plates • Laser Masks • Film

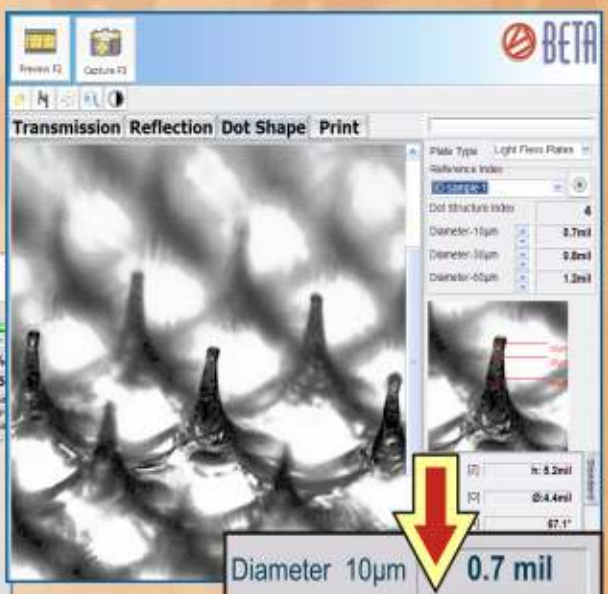
Offset Plates • Prints • Stain Density

Halftone Dot Area • Letterpress Plates

Color Separation Analysis

Image Comparison





NEW!

3D DOT Structure Imaging

Topographical Visualization and 3D Imaging Assures Highlight Dot Integrity

ENLARGEMENT OF 3D DOT STRUCTURE IMAGING
MEASURED AT 3-POINTS FOR HIGHLIGHT STRUCTURE

SAVE • TIME • MONEY • MATERIAL

The Key to High Quality Flexo

mark andy PRINT PRODUCTS

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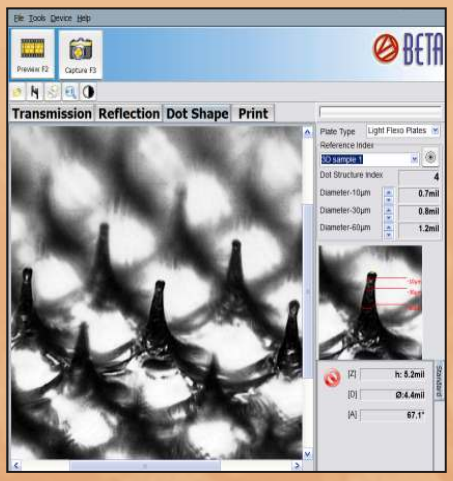
The Problem - Process variability, uncertain results, wasted material

The Solution - The Betaflex system simplifies process control with a familiar interface, unparalleled accuracy, and a powerful toolbox of functions.

BETA FLEXPRO
Plate & Image Analyzer

The Benefits **Detect process variation before expensive errors propagate through the system.** Automatic data collection, plotting, and statistical analysis keeps the operator informed and the process on target. The built-in calibration function and target system provides maximum accuracy and inter-instrument agreement across the plant and around the world

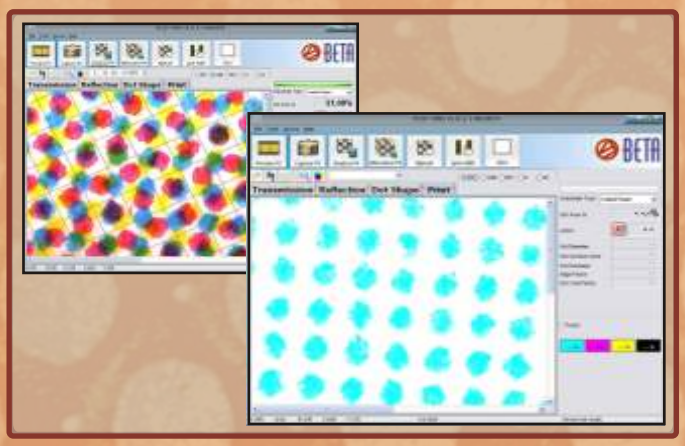
3D Dot Structure Imaging

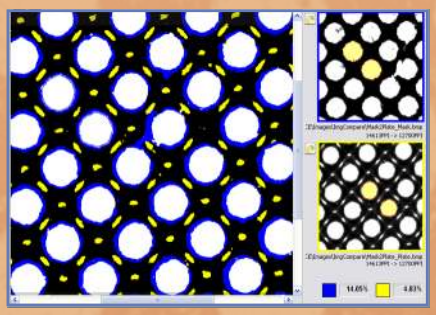


3D imaging is the only way to calibrate and control HD screening techniques. Photopolymer and elastomer plates are easily imaged, analyzed, and compared to the shop standard. **The Pass/Fail indicator simplifies the production worker's job while detailed measurement data is available to the QC manager and technician.**

Using reflection illumination, plates are analyzed before or after mounting, flat on the bench, or mounted on the press. Plate wear and damage can now be evaluated before committing to running potentially bad plates.

Dot Structure Index gives a simple one-number analysis of the dot shape, diameters at three points along the shoulder accurately describe the stability of the dot, and a reference and sample image comparator give a visual guide to the shape of the dot.





COLOR SEPARATION ANALYSIS from printed halftones, separated and analyzed for true halftone dot area analysis & correction. Useful for gray balance control and for printing without targets.

IMAGE COMPARISON

Automatically rotates, scales, and overlays images to display and measure differences in dot area. See dot size change from mask to plate to print, plant to plant, or week to week. See changes in the process or materials, the plant or the method, before expensive errors spread through the system.

SYSTEM REQUIREMENTS	HARDWARE SPECIFICATIONS	FUNCTION SUMMARY
• Windows XP, Windows 7	• 1.3 MegaPixel mono camera	• DOT Area%, Diameter, Perimeter
• 1 GB RAM • 1 GHz Processor	• USB powered • 1.7 microns/pixel	Surface Area, Edge Factor
• USB 2.0 port • 1024x768 display	• Self-contained case 6x8x15 in.	• AM & FM dot area • Line Width
• 100 MB for program & images	• Weight 13 lbs	• Mean, Range, Standard Deviation

Betaflex Pro Specifications

SAMPLE TYPES

Halftone Pos. & Neg. Film, Laser Ablation Mask
Transparent Flexo Plates, Opaque Elastomer Plates
Offset Plates, Letterpress Plates
Color Print on Paper & Film

CAMERA HARDWARE

Camera USB2.0.....1.3MPixel
2 D TOP VIEW Image resolution.....1.7µ/Pixel
3 D OBLIQUE VIEW Image resolution.....1µ/Pixel

ILLUMINATION

Transmission
Reflection RGB & White
3D Illumination

MEASUREMENT RESULTS AND FUNCTIONS

Dot Area 0.5%..98% % in 0.01%
Screen ruling...35 LPI-300 LPI
Dot Diameter 0.1 µ / 0.1mil
Dot Surface Area $1\mu^2$ / $1mil^2$
Dot Perimeter & Edge Factor µ / mil
Mask Stain Density
Auto Line Width by click in 0.1 µ / 0.1mil
Auto, Manual, & Preset screen ruling
Fast alternative selection with drop down list....
Full FM Screen Analyses
Manual Dot selection by click
Local Magnifier function
Native Image Comparison
2D Distance measured w/ruler 0.1 µ / 0.1mil
2D Angle measurement with ruler in 0.1ø
Dot Structure Index
Dot Diameter at -10µ, -30µ, -60µ depth
3D Minimum Dot Display
3D Diameter, Height, Angle 0.1 µ / 0.1mil, 0.1ø
Full Image Exchange between devices