BETA FLEXPRO

Plate & Image Analyzer

The Precise & Productive Tool For Today's Flexo

MEASURE HD FLEXO WITH 3D IMAGING

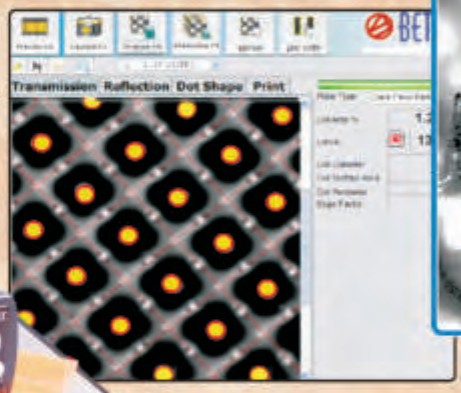
Flexo Plates • Laser Masks • Film

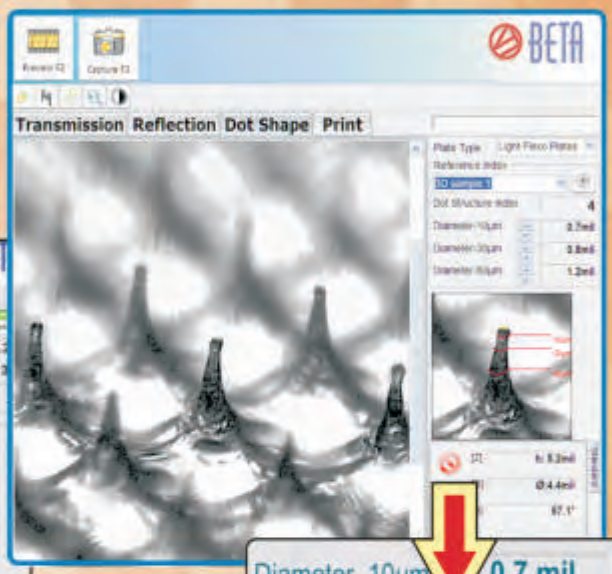
Offset Plates • Prints • Stain Density

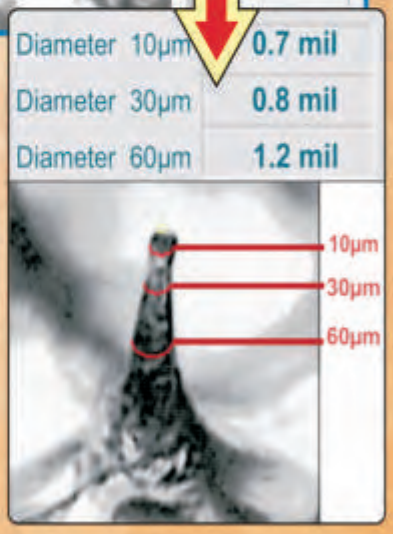
Halftone Dot Area • Letterpress Plates

Color Separation Analysis

Image Comparison







3-D DOT STRUCTURE ANALYSIS

NEW!

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

BETA INDUSTRIES
The Quality Control Company

Contact Beta or Your Dealer
for a **Free 10-Day Trial**
www.betascreen.com
www.betascreen.net

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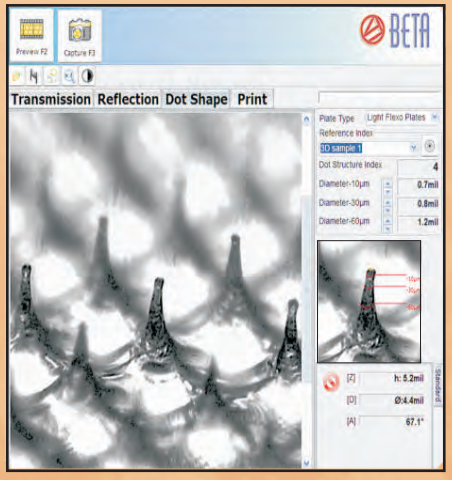
The Problem - Process variability, uncertain results, wasted material

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 variations 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

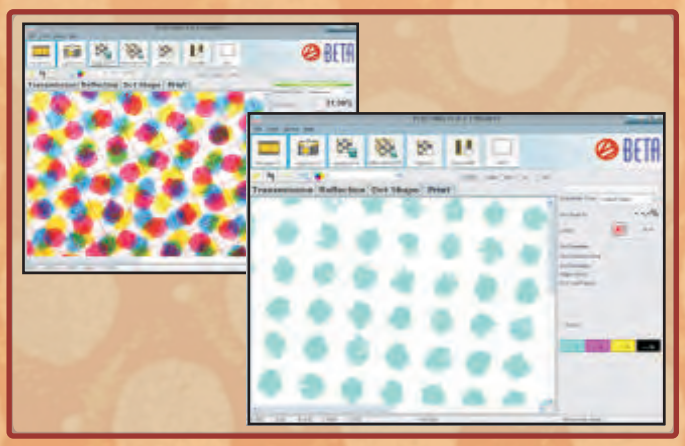


3D Imaging is the Only Way to Calibrate and Control HD Screening Techniques

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.



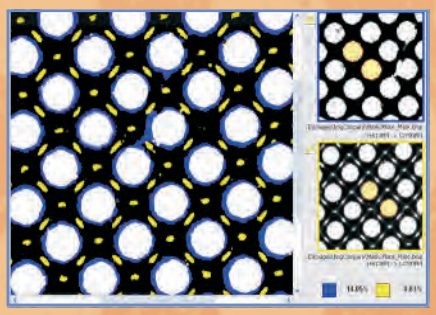


IMAGE COMPARISON

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.

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.

SYSTEM REQUIREMENTS	HARDWARE SPECIFICATIONS	FUNCTION SUMMARY
• Windows 7, 8, XP • 4 GB RAM • 3 GHz Processor • USB 2.0 port • 1280x800 display • 400 MB for program & images	• 1.3 MegaPixel mono camera • USB powered • 1.7 microns/pixel • Self-contained case: 6x8x15 inch (15x20x38) cm. • Weight 13 lbs. (5.89 kg.)	• DOT Area%, Diameter, Perimeter Surface Area, Edge Factor • AM & FM dot area • Line Width • 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
Statistical Functions & Report Generator
Dot Area Plot
Mean, Standard Deviation
Data Import and Export
Configurable Report with include/exclude list
Measurement data or images

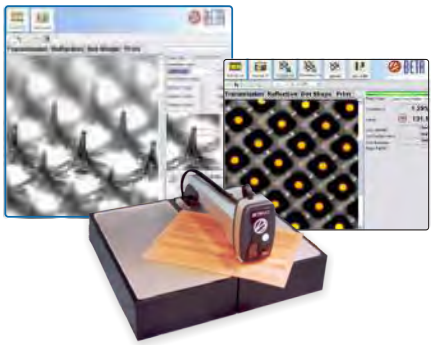
SIZE AND WEIGHT

Self contained portable case
Transport size LxWxH: 18" x 14" x 12" / 45 cm x 35.5 cm x 30.4 cm
Weight: 10 lbs. / 4.53 kg. (Shipping: 16 lbs. / 7.25 kg)
Language Versions: English, German, French, Spanish, Italian, Japanese

BETA INDUSTRIES
The Quality Control Company

Betaflex Pro

OPTIONS & ACCESSORIES



BETAFLEX PRO FLEXO PLATE & IMAGE ANALYZER

Operates At The Highest Possible Resolution for HD Flexo

for the most accurate measurement in **3D DOT STRUCTURE MODE** or **2D MODE** as well as for stochastic screening.

Other Features: COLOR SEPARATION IMAGING (Print Mode), IMAGE COMPARISON, BAR CODE ANALYSIS. Measure Dot Area, Screen Ruling, Edge Factor and more. Data and images are easily captured and printed with the integral report generator and statistical analyzer. **Also measures Offset & Letterpress plates, masks, & films.**

FlexiGage Digital Micrometers

Measure plate gauge, relief of thermal, aqueous, solvent, and direct ablation plates with Flexi-Gage Digital Micrometers to add the data directly to FlexoEyePlus Software. Use your plate gauge table with FlexiGage uses your plate table while the Betaflex Pro sensor can be mounted on the Sleeve Adaptor to measure sleeves in 2D and 3D mode with, **FlexiGage Standard for** sleeves from 80" X 16.7" (2000 mm X 424.18 mm)

FlexoEyePlus Software

Optional software data collector/report generator guides the operator to collect just the data needed for high volume production with no unnecessary steps or obstacles for high production.

Convenient PASS/FAIL icons evaluate minimum dot and midtone dot while plotting the day's production on a convenient graph. Data is also input from the new **FLEXIGAGE DIGITAL MICROMETERS,** see above

XXL Long Arm Adaptor

Mounts Betaflex Pro sensor head & FlexiGage Micrometer 30 inches (920 mm) into the plate. Mask, plate and print halftone analysis as well as plate thickness and relief measurements with optional FlexiGage Micrometer.

***Available as the BetaFlex XXL Long Arm System which includes Betaflex Pro Sensor or sold separately without sensor.**

Betaflex Pro Sleeve Adaptor

Dual transmission illuminators produce sharp, high-contrast images for accurate halftone dot analysis for the Betaflex Pro Measuring Head in both 2D & 3D modes.

Two Available Options: With Betaflex Pro Sensor Head or w/o to attach your existing Sensor head directly.

Format: Cut off: 12" to 49" (300 mm - 1250 mm)
Diameter: 3.75" to 15.7" (95.5 mm - 398 mm)
Width: Maximum 80" (2000 mm)

***Available as the BetaFlex Pro Sleeve Adaptor System which includes Betaflex Pro Sensor or sold separately without sensor.**

Roll Mount

Documents plate wear and damage while the plate is still on press. The Betaflex Pro sensor attaches to the Roll Mount, stabilizing the sensor on a stationary plate cylinder for 3D mode measurements. Web print samples can also be imaged on a stationary web over a turning bar or flat area on the press.