



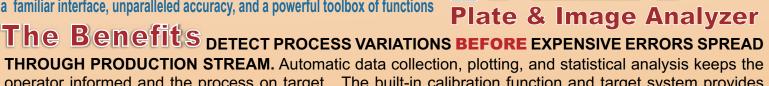
Contact Beta or Your Dealer for a Free 10-Day Trial www.betascreen.com www.betascreen.net



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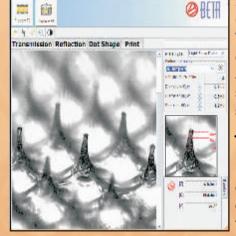
The Problem - Process Variability, Uncertain Results, Wasted Material

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



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. "Dot Structure Index" simplifies the production worker's job while detailed measurement data is available to the QC manager.



Dot Structure Index 26 Diameter 10µm • 0.8 mil Diameter 30µm • 1.4 mil Diameter 60µm • 2.1 mil



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. Higher Dot Structure Index numbers show a better dot.

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.



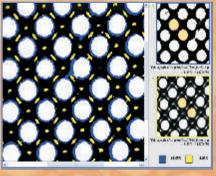


IMAGE COMPARISON

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

- Windows 7 or preferred 10 (64 Bit)
 8 GB RAM 3 GHz Processor
- USB 2.0 port 1920x1080display
- 400 MB for program & images

HARDWARE SPECIFICATIONS

1.3 MegaPixel mono camera
USB powered • 1.7 microns/pixel
• Self-contained case:
6x8x15 inch (15x20x38) cm.
• Weight 13 lbs. (5.89 kg.)

FUNCTION SUMMARY

- Dot Area%, Diameter, Perimeter Surface Area, Edge Factor
- AM & FM Dot Area Line Width
- Mean, Range, Standard Deviation





BETAFLEX PRO FLEXO PLATE & IMAGE ANALYZER

analyzer. Also measure offset plates, masks, & films.

OPERATES AT THE HIGHEST POSSIBLE RESOLUTION FOR

HD FLEXO to provide the most accurate measurement possible in both 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

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 Betaflex Pro Sensor Head directly. Format: Cut off: 12" to 49" (300mm - 1250mm) Diameter: 3.75" to 15.7" (95.5mm - 398mm) Width: Maximum 80" (2000mm)

FlexoEye Plus Software



The new 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 below

Measure plate gauge, relief of thermal, aqueous, solvent, and direct

Flexi-Gage Digital Micrometers



ablation plates with Flexi-Gage Digital Micrometers to add the data directly to FlexoEye Plus Software. Use your plate gauge table with Flexi-Gage Light 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, Flexi-Gage Standard for sleeves from 80" X 16.7" (200 x 42 cm.)

XXL Long Arm Adaptor



Roll Mount



FOR LARGE PLATES

Mounts Betaflex Pro sensor head and or Flexi-Gage 30" into the plate. Mask, plate and print halftone analysis as well as plate thickness and relief measurements with optional Flexi-Gage Digital Micrometer.

DOCUMENTS PLATE WEAR AND DAMAGE WHILE THE PLATE IS STILL ON PRESS. The Betaflex Pro Sensor Head 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.



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 1µ² / 1mil² 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





Densitometers-Spectros, Flexo Analyzers, CTP Calibration, Color Viewing, Magnifiers, Testing Equipment

1) BETAFLEX PRO SPECIFICATIONS & ACCESORIES

a) Analysis Modes

- Transmission mode for Flexo Plates, Films, and Masks.
- Reflection mode for prints, & Letterpress Plates, and Offset Plates
- Dot Structure Mode for 3D imaging
- Color Separation mode with halftone analysis
- Image Comparison mode
- Bar Code/Line Width Analysis
- Mottle Analysis
- Stain Density

b) Included Complete (No Additional Charges)

- Betaflex Pro analyzer hardware
- Betaflex Pro software complete (See section 3a, FlexoEyePlus Software for additional database functions)
- ISO Calibration plaque
- All cables
- Training (See section 2a)
- BetaColor Viewer 3 (See section 2b)

c) Minimum Hardware Computer System Requirements

- Windows 10 (preferred) or 7, Must NOT be server editions, 64 bit
- minimum 8 GB RAM 3 GHz Processor
- minimum 1024 x 768 video, preferably higher
- minimum 2 x USB ports "high power" or powered USB hub, when using the FlexiGage Micrometer, 3 USB ports are required
- Administrator File Permissions needed only for installation.
- 100 MB for program & images

d) Betaflex Pro Hardware Specifications

- 1.3 MegaPixel mono camera USB powered
- 1.7 microns/pixel
- Self-contained case 6x8x15in. (Standard BetaFlex Pro)
- Shipping Weight: 13 lbs. (Standard BetaFlex Pro)

e) Function Summary

Dot area %, diameter, perimeter, surface area, edge factor, stain density, AM & FM dot area, Line Width, Mean, Range, Standard Deviation

2) FREE & INCLUDED ITEMS

a) **TECHNICAL SUPPORT AND TRAINING:** Free and unlimited via phone/webinar directly from Beta Industries

Contact: Larry Goldberg, Technical Director, Beta Industries **Email:** <u>larry@betascreen.com</u>, Phone: 800-272-7336 (U.S. & Canada), 201-939-2400

b) EVERY BETAFLEX PRO PURCHASE INCLUDES A FREE BETACOLOR VIEWER,

VALUE \$439. This is the latest generation of the <u>BetaColor Viewer</u>. CMYK color contrasting LED's for critical examination of production color. The industry standard for critical visual color evaluation.

3) AVAILABLE OPTIONS & ACCESSORIES

a) <u>FlexoEyePlus Software</u> Streamlined Automatic Data Collector & Report Generator for Betaflex Pro

b) <u>FlexiGage Micrometer</u> Digital Plate micrometer for use with Flexo-Eye Plus retrofitted by the user to their existing plate micrometer table

c) <u>Roll Mount</u> Measure plate wear on the press 3D Measurements & Web print samples

d) <u>Betaflex Pro XXL Long Arm System or Adapter</u> Mounts the Betaflex Pro or Flexi Gage 30 inches (75 cm.) from the edge of the plate. Required for large transmission plate, mask & print analysis. 3D, print, and thickness/relief analysis of large samples

e) Betaflex Pro Sleeve Adaptor or System For measuring plates-in-the-round.

f) <u>BetaFlex Pro 4.0 Software Upgrade</u> Units with serial numbers prior to 630 are eligible for the upgrade

- Upgrade your existing Betaflex Pro to measure the latest surface screening technologies
- View 3D images with increased high resolution