

DENSITOMETERS

How to choose the right densitometer

| | Film Dot Area and Density | Color Density | Color Dot Gain 2 levels | Color Dot Gain 3 levels | Gray Balance | Colorimetry Delta E | Offset Plate Dot Area |
|----------------------------------|---------------------------------------|------------------------|-------------------------|-----------------------------|--------------|---------------------|--------------------------------|
| Screen Process (solids only) | Betalog 77 or 150 or Dottie-II | Betacolor S1 | | | | | |
| Screen Process (photo) | Betalog 77 or 150 | | Betacolor S2 | Betacolor S4 | Betacolor S4 | Betacolor 2000 | |
| Screen Process (coarse dot) | Betalog 77 SCREEN | | | Betacolor S4 w/5mm aperture | | | |
| Offset (B&W) & Offset Duplicator | Betalog 77 or 130 or 150 or Dottie-II | Betalog 130 (B&W only) | Betacolor S2 | | | | Platemaster D/P |
| Offset 2 color press | Betalog 150 | | Betacolor S2 | | | | Platemaster D/P or UltraDottie |
| Offset 4 color press | Betalog 150 | | | Betacolor S4 | Betacolor S4 | Betacolor 2000 | UltraDottie |
| Flexo | | | | Betacolor S4 | | Betacolor 2000 | |
| Pad Printing | Betalog 150 | | | | | | |
| Inkjet Printing | | | | | | Betacolor 2000 | |

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COLOR DENSITOMETERS



BETACOLOR S1

Reflection Densitometer
Ideal for the Single Color Press
Measure density on proofs and press sheets

Features: Auto Density, Auto Zero, Auto Color Recognition, Manual Override, Optional Polarization, Manual Gray Balance, Slope Control, Maintenance Free, LED Illumination, RS 232 Serial Output, Solid Segment 10mm LCD, Two Year Parts & Labor Warranty

| | |
|-------------|--------------------|
| Part Number | Description |
| M003-004 | DENSI:BETACOLOR S1 |



BETACOLOR S2

Reflection Color Densitometer- A full featured, economically priced densitometer for the busy pressroom. Perfect for the Two Color Press running process color work. Measure the most important variables, Solid Density and Dot Gain, without touching a button. Get the convenience of Auto Zero, Auto Color Selection, and Auto Function Selection for quick and sure operation.

Other features include Dot Area Function, Dot Gain at Two Levels, Density Slope Control, Manual Override, Serial Data Port, Solid Segment 10mm LCD, Manual Gray Balance, Absolute and Relative Density Mode, Maintenance Free, LED Illuminator, Available with Wide or Narrow band filters, Optional Polarization, 3mm aperture standard, optional 1.7mm, Two Year Parts & Labor Warranty

| | |
|-------------|--------------------|
| Part Number | Description |
| M003-005 | DENSI:BETACOLOR S2 |



BETACOLOR S4

High precision, full function densitometer for sophisticated color applications. The perfect densitometer for the Four Color Press.

Large, graphical display prompts the user in plain English, or Spanish, or German, or Italian, or even French! Automatic zero, color, and function selection make it the fastest operator in the pressroom. Extensive color functions are included.

Features: Density range 0.00D - 2.50D; Repeatability / linearity 0.01 D; 3.5 mm measuring aperture (1.7 optional); Automatic zero, Measure Fluorescence, Grayness, Hue Error and Print Contrast; Absolute and Relative Zero Modes; Automatic color selection; Automatic dot gain (Murray-Davies method); Automatic dot area; Manual override on all functions; Automatic gray balance; Data collection, statistical Analysis, and Graphical Display on board; Trapping efficiency & color rotation measurement; Optional polarization; Optional narrow band filter set; Serial data port, adjustable baud rate; Individual density slope controls; 1,000,000 measurements on AA Alkaline batteries, no charger or cables to break or lose; Two Year Parts & Labor Warranty

| | |
|-------------|--------------------|
| Part Number | Description |
| M003-001 | DENSI:BETACOLOR S4 |

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HALFTONE DENSITOMETERS



BETACOLOR 2000

Laboratory Precision for the Pressroom! Densitometer Functions: Lab, LCH, Xyy, Delta E and components, Automatic Zero Calibration, Automatic 7 Color Recognition, (C,M,Y,K, + Orange, Blue, Green), Density and Density Difference, Gray Balance and Color Balance, Automatic Dot Area, (Murray/Davies), Auto Dot Gain at 3 levels, Automatic Trapping, (1st, 2nd, 3rd color sequence recognition), Hue Error, Grayness, Print Contrast, Absolute Zero, Density Slope Control, One Year Parts & Labor Warranty

Part Number
M003-006

Description
DENSI:BETACOLOR 2000



ULTRA DOTTIE

Self-contained, image-based dot meter for halftone measurement of CTP and all other plate, film, and color print materials. Graphical display with screen angle, dot diameter and ruling calculation. Calibration data plotted directly on the display. Store and download images and data for analysis, linearization, etc.

The Beta ULTRA DOTTIE is the most advanced, accurate, and easy-to-use halftone image analyzer on the market. Operating at more than twice the resolution of any portable instrument, the 12,000 dpi imager easily measures conventional halftone screens in excess of 400 lines per inch, and stochastic pixels smaller than 20 microns.

Part Number
M003-007

Description
DENSI:ULTRA DOTTIE



PLATEMASTER DP

Reflection Densitometers- Affordably priced and technologically advanced!

The BETALOG PLATEMASTER is a unique black and white reflection densitometer with some very special features. Measure dot area and density of any lithographic plate regardless of color, contrast, or graining. An absolute necessity in calibrating any computer to plate system. Perfect for photos, proofs, and press sheets too.

This unique ability allows you to verify tints and halftones on plate before going to press, saving time and money. Isolate and correct platemaking dot gain from press dot gain.

Part Number
M003-008

Description
DENSI:PLATEMASTER DP



MICRODOTTIE

Miniature Halftone Analyzer for Offset Plates, Prints, and Film! Powerful Pro software measures dot area automatically and offers a full complement of measuring tools. Video Micrometer, Line Screen Analyzer, Video Protractor, Screen Angle Analyzer, Oscillogram and much more run under Windows 95 to XP. Images and data can be saved, printed, and plotted directly as well as imported directly into RIP calibration utilities or other programs. Greatly facilitates communication and problem solving by allowing distant parties to see the dots on their own screen

Part Number
M003-009

Description
DENSI:MICRO DOTTIE

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PREPRESS DENSITOMETERS

BETALOG 77



Portable transmission densitometer, perfect for imagesetter calibration, serial port connects to Mac or PC calibration software. Reads film density to 6.00. Measure halftones as positive or negative dot area, using hard or soft dot compensation. Works on any light table to read the largest films.

Features: Transmission density to 6.00+, Dot area 0 - 100%, positive or negative reading, Hard dot and soft dot compensation, Serial data port, 9600 baud, Large 10 mm solid segment LCD display, 3.5 mm measuring aperture, 100,000 measurements on two lithium button cells, One Year Parts & Labor Warranty

Part Number
M003-010
M003-011

Description
DENSI:BETALOG 77
DENSI:BETALOG 77 SCREEN

BETALOG 130



Combination Reflection/Transmission Densitometer! A unique hand-held instrument intended for the imagesetting environment. The Betalog 130 is the only one-piece instrument capable of reading both films and reflection copy. Read any size films on a light table, not limited by instrument throat depth.

Read dot area in positive or negative form and density in transmission mode to 6.00D. Stochastic and conventional halftones can be read with equal ease and accuracy. Reflection mode uses Murray-Davies equation compensation for greatest accuracy with different proof and repro materials. Yule-Nielson "n" factor is available in reflection mode to improve the agreement between measurements and visual comparison.

Part Number
M003-012

Description
DENSI:BETALOG 130

BETALOG 150



Portable transmission densitometer reads film density to 7.00 with its built-in light source. Measure halftones as positive or negative dot area, using hard or soft dot compensation. Interchangeable apertures of 1, 2, and 3 mm allow the smallest targets to be used. Perfect for imagesetter calibration, convenient desktop use.

Features: Transmission density to 7.00+, Dot area 0 - 100%, positive or negative reading, Hard dot and soft dot compensation, Serial data port, 9600 baud, Large 10 mm solid segment LCD display, 1, 2, 3 mm measuring apertures, 100,000 measurements per set of AA batteries, One Year Parts & Labor Warranty

Part Number
M003-013

Description
DENSI:BETALOG 150

DOTTIE II



Measure dot percentage and density of film to 3.50 on any light table. Handy, reliable, and accurate. One Year Parts & Labor Warranty

Part Number
M003-014

Description
DENSI:DOTTIE II

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