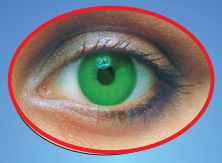
BETA COLOR VIEWER

Mark III with UV

INSTRUCTION MANUAL

SEE  IT

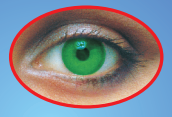
THE WORLD
STANDARD
FOR VIEWING
COLOR

BETA COLOR VIEWER

Mark III with UV

THE BEST TOOL SINCE
THE DENSITOMETER

INSTRUCTION MANUAL

SEE  IT

BETA INDUSTRIES
The Quality Control Company

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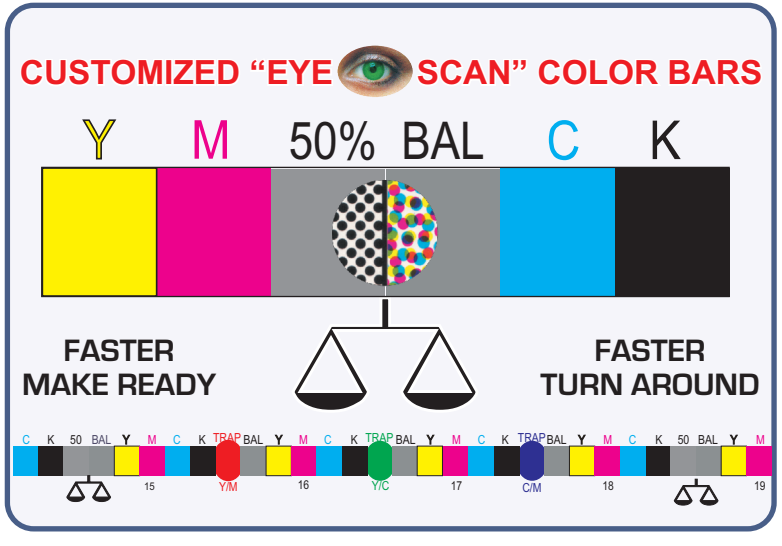
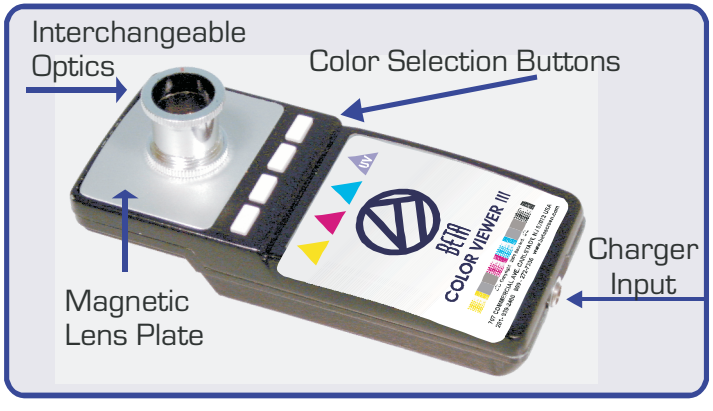
THE WORLD STANDARD FOR VIEWING COLOR

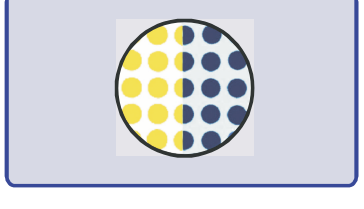


The BETACOLOR VIEWER MARK III is an advanced system for viewing film, plates, color proofs, and printed sheets. It is the perfect companion to the densitometer for complete quality control from the first to last step.



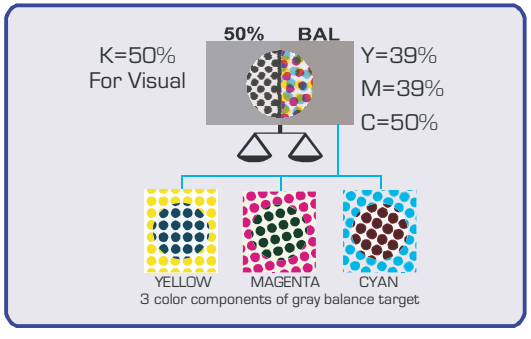
Pressing and holding any button will cause white LED's to illuminate the subject for general viewing. Releasing the button will initiate a specific color LED illumination.
For example, to examine a yellow image, pressing and releasing the yellow coded button will cause the blue LED to illuminate the field with contrasting light. The nearly invisible yellow ink is transformed and visually enhanced.

See Yellow



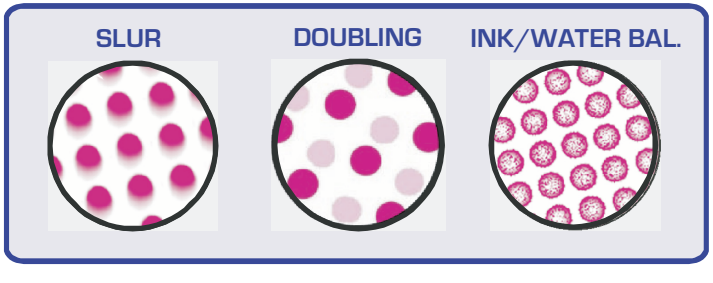
Note: In the event of a malfunction, fully charge the Beta Color Viewer before proceeding.

Multi color images and gray balance can be viewed and visually separated one layer at a time by sequentially tapping the yellow, magenta, and cyan buttons.



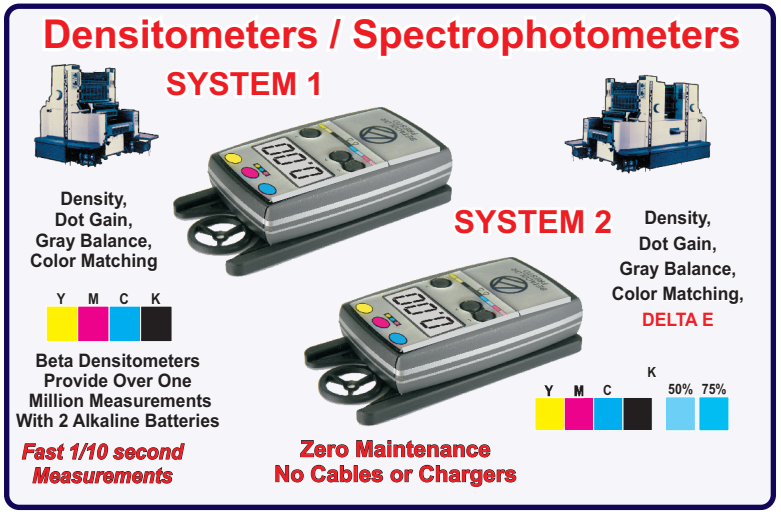
This feature is useful for comparing discrepancies between color proofs and press sheets.

COMMON PRESS PROBLEMS



SLUR can be caused by improper packing, worn grippers or a loose or stretching blanket.
DOUBLING generally is caused by worn grippers or other press components.
INK WATER IMBALANCE can readily be seen in all colors due to its recognizable appearance.

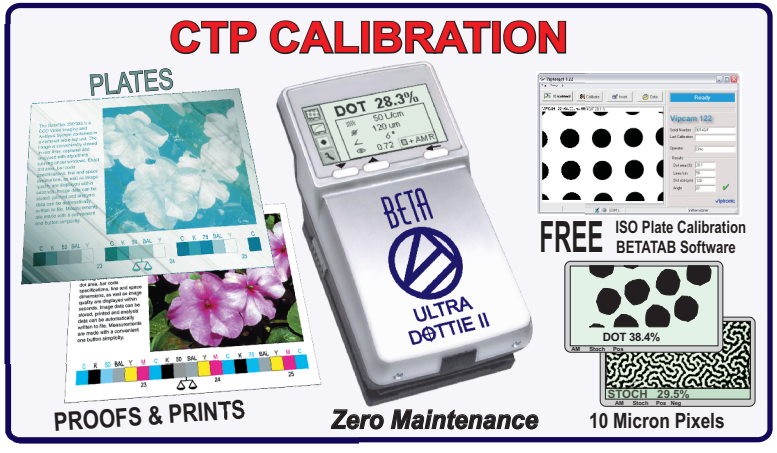
Other Beta Products

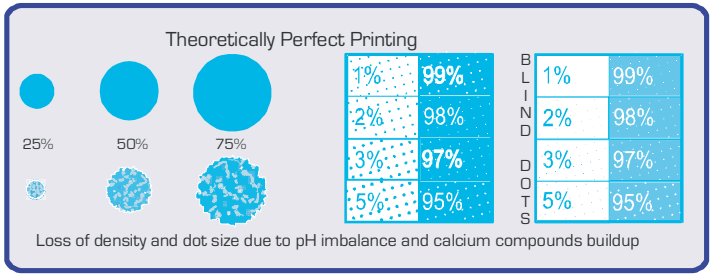


SPECIFICATIONS

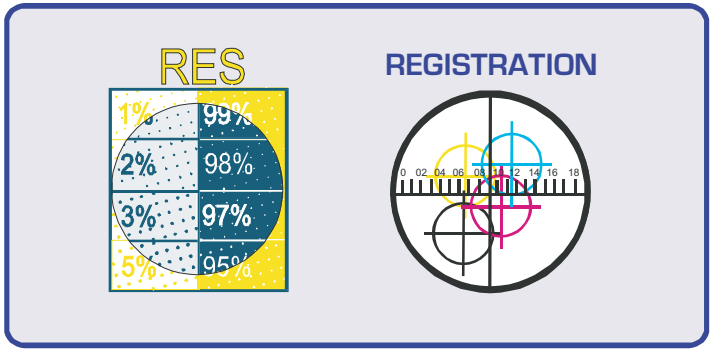
OPTICS....10X and 20X flat field color corrected 3 element multi coated design with locking ring
MICROSCOPES.....25X, 50X, 75X, 100X, Metric or Inch measuring reticle
LIGHT SOURCE.....High efficiency LED's for months of viewing between charges
POWER SOURCE..... 4 - AA Ni Cad batteries
DIMENSIONS.....5.75x2.5x2in. (14.5x6.5x5cm)
WEIGHT.....1.28lbs. (580g)
GUARANTEE.....3Years excluding batteries

Other Beta Products





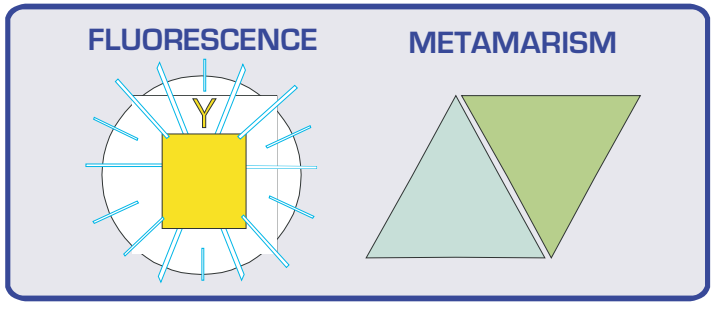
CALCIUM CARBONATE compounds deposits on plates, rollers, and blankets can cause poor ink transfer resulting in low ink density. First affected are disappearing highlight dots that are measurable with a press densitometer in the dot gain mode, but are better seen with the BETACOLOR VIEWER. Other factors are roller stripping, ink mottling, hickies, plate blinding, higher water speeds, ink emulsification, slow ink drying, and out of control conductivity and pH levels.



RESOLUTION TARGETS indicate the ability of the printing process to accurately reproduce the full range of dots from 1% to 99%. The BETACOLOR VIEWER can recognize errors at any source, whether it is film, plate or press.

REGISTER Measurements with an optional microscopes will greatly improve make ready time with far less wasted sheets. The internal reticule with the microscope option will show exact deviation correction adjustments.

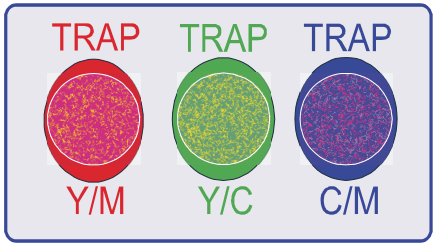
FLUORESCENCE and METAMERISM



FLUORESCENCE in paper, inks, and coatings occurs when ultra violet light striking a surface causes it to emit longer wavelength light and resulting color shift.

METAMERISM is the phenomenon where two color appear to match under one light source, yet do not match under a different light source. Two such colors are called a metameric pair.

The **BETACOLOR VIEWER III** features an ultra violet light source that will indicate fluorescence if present. This feature alerts the pressman to take corrective measures so that the color proof and press sheet will be in greater agreement according to what type of illumination the prints will be viewed in.



PEARL FACTOR exists in two color print combinations as found in Trapping when the substrate voids of the first transparent ink are overprinted with the ink of the second color. Laminate layer proofs similar to Matchprint or Cromalin will show no Pearl Factor, while ink jet and laser proofs will show varying degrees of Pearl Factor.

OPTIONAL OPTICS [10x, 20x, 25x, 50x, 100X] on interchangeable magnetic plates can be snapped on and off. This feature allows rapid interchangeability of optical magnifications without the need to refocus every time.

CHARGER – The BETACOLOR VIEWER III will operate for months on a single charge due to its innovative high efficiency LED's light sources. It is safe to use while charging. It is advisable not to leave it in charging mode for prolonged periods of time. Available in 110V or 220V.

CAUTION – avoid looking directly into the UV light source.