

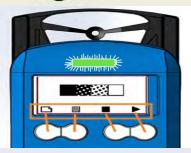


ERGONOMIC DESIGN

The marvel of miniaturization has reduced the size, and weigh of the PRESTO SPECTRO into a precision color measuring instrument with unique advanced features that will increase measurement speed by more than 300%. **TRAFFIC LIGHTS** allow the operator total control without the inevitable errors associated with remembering long strings of confusing numbers.



Slide the PRESTO SPECTRO forward and hold until the measurement information is displayed.



The display will continue to show information even in power down mode with no battery usage.

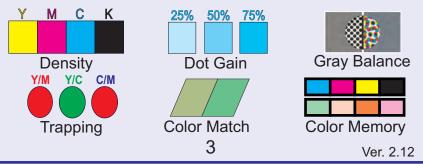
LED lights will flash **GREEN** when the measurement is within tolerance or **RED** when out of tolerance.



Memorize any color from multiple sources

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GETTING STARTED There are 4 Primary Screens BALANCE Mode AUTO Mode - Measure Set or Measure Paper, Density, Dot Gain (\bigcirc) Balance Automatic Density TRAP TRAP Mode SPECTRO Mode - Set, Measure Overprints Select. Measure Colors Ph Color Trapping GO) STOP LIGHTS

The PRESTO SPECTRO is designed to automatically ZERO to paper and measure DENSITY and DOT GAIN without changing programs.

The **GREEN** LED will flash when the measurements are within TOLERANCE thereby increasing speed and accuracy of measurements. TOLERANCES can be changed according to the quality control requirements.

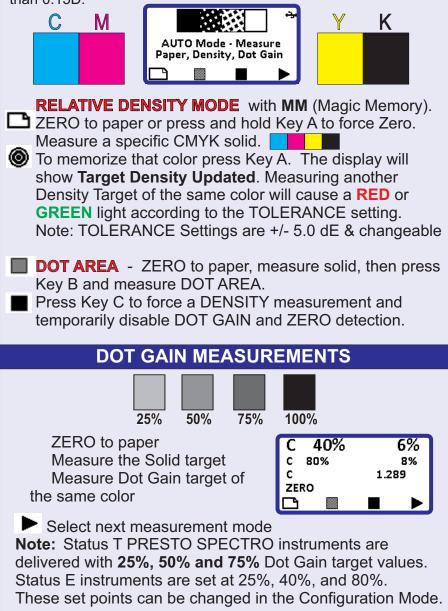
The **RED** LED cautions the operator to look at the display and make corrections accordingly.

Color matching with CMYK is simply done in AUTO DENSITY mode using the MCM (Magic Color Match) feature or in the new exclusive **COLOR REFERENCE LIBRARY** with Lab Delta E that stores up to 32 colors in 4 separate channels for fast, accurate **AUTO** color matching. **Ideal for Flexo.**

To start, open the AUTO MODE screen and Zero to paper. Measure DENSITY, DOT GAIN and DOT AREA. Press KEY D to advance to the other programs.

AUTO Mode DENSITY

In AUTO MODE measure DENSITY, DOT GAIN and DOT AREA. The unit will automatically ZERO to paper with a DENSITY lower than 0.15D.



DOT GAIN MEASUREMENTSDot gain is inherent in the printing process.
It is composed of two components;Mechanical
Dot GainOptical
Dot GainTotal
Dot GainImage: Colspan="3">Total
Dot Gain</t

MECHANICAL DOT GAIN is the actual physical growth of the dot on the substrate and varies according to paper type, slurring, pressure, ink/water balance, etc.

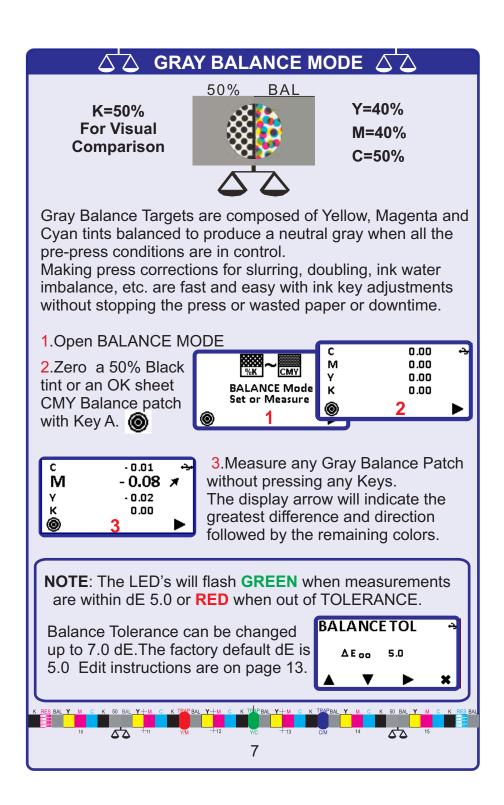
OPTICAL DOT GAIN is the scattering of light within the substrate which results in a higher than expected dot gain when measured with a densitometer using the Murray/Davies equation.

Slur, Doubling or Ink Water Imbalance result in unexpected DOT GAIN



Note: When measuring DENSITY targets, the measurement may occasionally show a false Dot Gain in the display. This is caused by an abnormally low DENSITY target erroneously interpreted as a high Dot Gain target. If this occurs, Zero to paper and measure any questionable DENSITY target again.

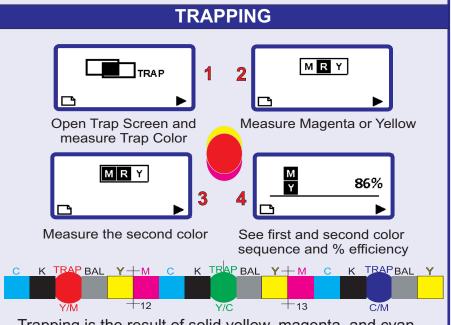
| Solid | Solid | 75% Tint |
|--------|--------|----------|
| 1.40 D | 0.95 D | 0.95 D |



MCM MAGIC COLOR MATCH MCM



Color Matching can be achieved using the same procedure as Gray Balance. The PRESTO SPECTRO will show Density differences of C,M,Y,K for fast, accurate correction on press regardless of changes caused by slurring and other press factors.

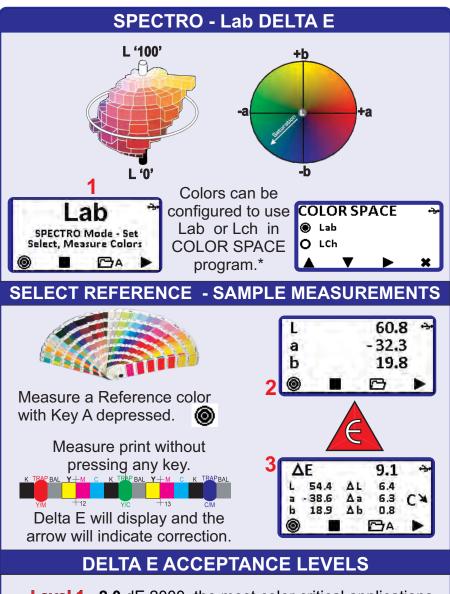


Trapping is the result of solid yellow, magenta, and cyan inks printed in two color combinations to produce red, green and blue solids.

Trapping efficiency is the ability of the second color to be accepted or trapped by the first color.

Measure overprint target (for example Red, composed of Magenta and Yellow)

Matching the color sequence is necessary to match previous print jobs.



Level 1 - 2.0 dE 2000 the most color critical applications.
Level 2 - 3.0 dE 2000, color critical applications, e.g. commercial printing
Level 3 - 4.5 dE 2000, pleasing process color printing
Level 4 - 6.0 dE 2000, non critical color

* See SELECT COLOR SPACE page14

COLOR REFERENCE LIBRARY

PrestoSpectro will store 32 color References, conveniently organized in 4 Sections (A,B,C,D), each with 8 Colors. The AUTO Mode will recognize each of the 8 colors within the 4 Sections when a sample is measured. For example:



* Section A is CMYK plus RGB, Gray Balance or spot color.
 * Section B is CMYK plus OGV and White ink

Section C and D are any random colors on a print job.



If the selected Volume is empty, SPECTRO Mode will open as shown here.

Press Key C A to open the Library. Volume A is shown here, B, C, and D are also available with Key C.
 Zero to white paper with Key A

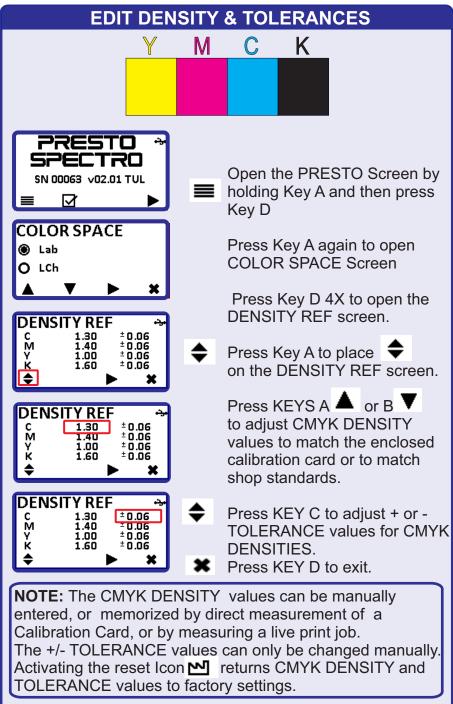
imeasurements. Measure your REFERENCE to load A001.

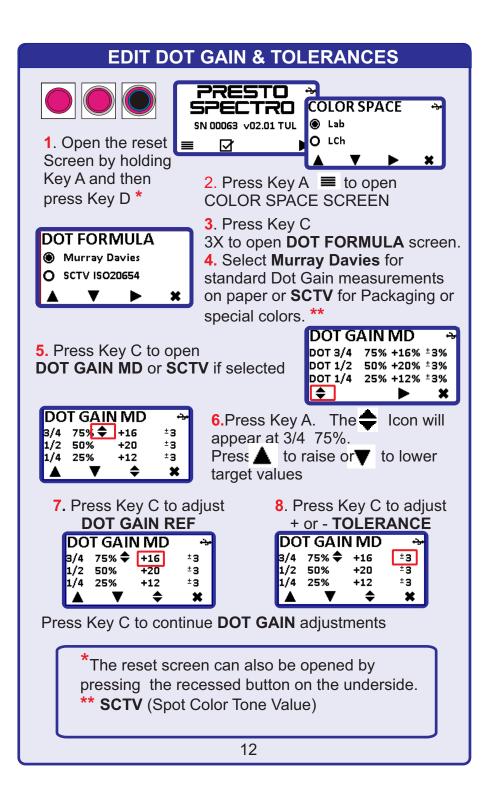
| | 5 4.0 👻 |
|--------|---------------------------|
| L 52.8 | ∆L -0.5 |
| a 63.5 | ∆a 4.0 K≯ |
| b 2.5 | ∆b •0.1 |
| | |
| | L 52.8 a 63.5 b 2.5 |

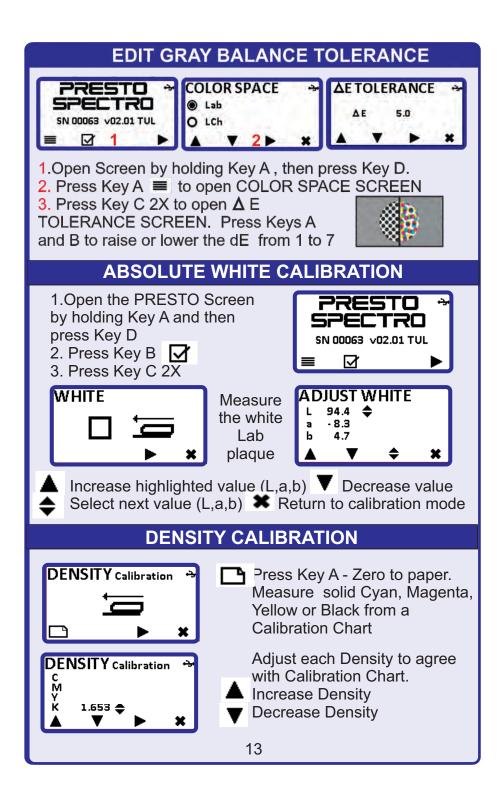
Press Key B to advance to A0002, measure your REFERENCE to load the value in A0002. Repeat as needed for A0003, A0004, etc. Press Key D to save Volume A.
AUTO Mode will now open, high-lighting the recognized REFERENCEin reverse type, displaying the Lab delta E, and the correction needed.

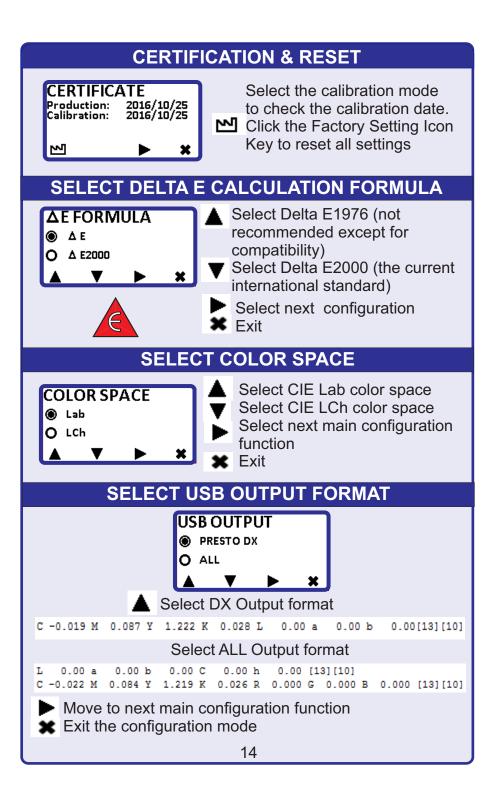
The **RED** or **GREEN** LED's will flash to indicate in or out of TOLERANCE and is adjustable in \triangle **E TOLERANCE** Prog. The Default setting is dE 5.0 and the range is dE 1.0 - 7.0

* Suggested values









OPTIONAL COLOR LIBRARY SOFTWARE

PrestoConnect Color Library Management Software

| eaure exit of colors Jobs Oustome ColorANY Color | Company Address City Info | Four Color 113 Beech Rutherfon 4C proces | d, NJ | | | | | Pr W al cr m cc nc Sp | est inde low: eate ana umb onju ew E pect | oCo s th e, c ge er c nct Seta | onal onn s soi e us olle an u of co ion a Pro port | ect ftwa ser f ct, a unlin olors with esto able | to and mite s in n th o e |
|---|---|--|--|---|--|---|---|--|---|--|---|---|---|
| PRESTO DX connect | | | | | | | | | | | - | - | × |
| | omer | | | | | | | | | | FR | - | P |
| | omer | * × | 6 | | | | | | | | - H | | 9 |
| t of colors Jobs Custre | | * × | | de c | | | | к | D-Tol | Descr | RGB | | |
| t of colors Jobs Custo d d P P 4 Name 1 Cyan | a 55.76 | -37.67 | -49.17 | 3 | 1.25 | 0.313 | 0.107 | 0.642 | 0.05 | | RGB | | |
| t of colors Jobs Custr A P P A P Name Cyan Magenta | a 55.76 51.68 | -37.67 69.38 | -49.17 -6.6 | 3 3 | 1.25 0.154 | 0.313 | 0.107 | 0.642 | 0.05 | | RGB | | |
| t of colors 3obs Custo A P PI + Name Cyan Magenta Yellow | - a 55.76 51.68 90.45 | -37.67 69.38 -4.82 | -49.17 -6.6 89.34 | 3 3 3 | 1.25 0.154 -0.027 | 0.313 1.117 0.04 | 0.107 0.51 0.821 | 0.642 0.561 -0.009 | 0.05 | | RGB | | |
| t of colors Jobs Custo d d P P 4 Name Cyan Magenta Yellow Black | - a 55.76 51.68 90.45 20.59 | -37.67 69.38 -4.82 1.65 | -49.17 -6.6 89.34 4 | 3 3 3 3 | 1.25 0.154 -0.027 1.42 | 0.313 1.117 0.04 1.487 | 0.107 0.51 0.821 1.599 | 0.642 0.561 -0.009 1.394 | 0.05 | | RGB | | ^ |
| A focility is a constrained of the second se | - a 55.76 51.68 90.45 20.59 50.65 | -37.67 69.38 -4.82 1.65 64.43 | -49.17 -6.6 89.34 4 41.91 | 3 3 3 3 3 | 1.25 0.154 -0.027 1.42 0.158 | 0.313 1.117 0.04 1.487 1.113 | 0.107 0.51 0.821 1.599 1.296 | 0.642 0.561 -0.009 1.394 0.561 | 0.05 0.05 0.05 0.05 0.05 | | RGB | | |
| t of colors Jobs Custo A A P PI A Name I Cyan Magenta Yellow Black Red Green | - a 55.76 51.68 90.45 20.59 50.65 52.17 | -37.67 69.38 -4.82 1.65 64.43 -50.45 | -49.17 -6.6 89.34 4 41.91 25.12 | 3 3 3 3 3 3 | 1.25 0.154 -0.027 1.42 0.158 0.982 | 0.313 1.117 0.04 1.487 1.113 0.384 | 0.107 0.51 0.821 1.599 1.296 0.932 | 0.642 0.561 -0.009 1.394 0.561 0.623 | 0.05 0.05 0.05 0.05 0.05 0.05 | | RGB | | |
| t of colors Jobs Custo d d P P 4 Name Cyan Magenba Yellow Black Red Green Blue | L a 55.76 51.68 90.45 20.59 50.65 52.17 32.3 | -37.67 69.38 -4.82 1.65 64.43 -50.45 7.92 | -49.17 -6.6 89.34 4 41.91 25.12 -45.82 | 3 3 3 3 3 3 3 3 3 | 1.25 0.154 -0.027 1.42 0.158 0.982 1.182 | 0.313 1.117 0.04 1.487 1.113 0.384 0.964 | 0.107 0.51 0.821 1.599 1.296 0.932 0.465 | 0.642 0.561 -0.009 1.394 0.561 0.623 1.146 | 0.05 0.05 0.05 0.05 0.05 0.05 0.05 | | RGB | | |
| A construction of colors and a construction o | 55.76 51.68 90.45 20.59 50.65 52.17 32.3 31.16 | -37.67 69.38 -4.82 1.65 64.43 -50.45 7.92 35.07 | -49.17 -6.6 89.34 4 41.91 25.12 -45.82 -56.54 | 3 3 3 3 3 3 3 3 | 1.25 0.154 -0.027 1.42 0.158 0.982 1.182 0.903 | 0.313 1.117 0.04 1.487 1.113 0.384 0.964 1.262 | 0.107 0.51 0.821 1.599 1.296 0.932 0.465 0.367 | 0.642 0.561 -0.009 1.394 0.561 0.623 1.146 1.121 | 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 | | RGB | | |
| t of colors Jobs Custo A A P P A Name A Cyan Magenta Yellow Black Red Green Blue Vulet Seafoam | 55.76 51.68 90.45 20.59 50.65 52.17 32.3 31.16 65.11 | -37.67 69.38 -4.82 1.65 64.43 -50.45 7.92 35.07 -62.43 | -49.17 -6.6 89.34 4 41.91 25.12 -45.82 -56.54 0.05 | 3 3 3 3 3 3 3 3 3 3 3 3 3 | 1.25 0.154 -0.027 1.42 0.158 0.982 1.182 0.903 0.889 | 0.313 1.117 0.04 1.487 1.113 0.384 0.964 1.262 0.147 | 0.107 0.51 0.821 1.599 1.296 0.932 0.465 0.367 0.352 | 0.642 0.561 -0.009 1.394 0.561 0.623 1.146 1.121 0.387 | 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 | | RGB | | |
| t of colors Jobs Custo A A P P A A Name Cyan Magenta Yellow Black Red Green Blue Violet Seafoam Beige | 55.76 51.68 90.45 20.59 50.65 52.17 32.3 31.16 65.11 75.46 | -37.67 69.38 -4.82 1.65 64.43 -50.45 7.92 35.07 -62.43 3.8 | -49.17 -6.6 89.34 4 41.91 25.12 -45.82 -56.54 0.05 27.32 | 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | 1.25 0.154 -0.027 1.42 0.158 0.982 1.182 0.903 0.889 0.112 | 0.313 1.117 0.04 1.487 1.113 0.384 0.964 1.262 0.147 0.204 | 0.107 0.51 0.821 1.599 1.296 0.932 0.465 0.367 0.352 0.391 | 0.642 0.561 -0.009 1.394 0.561 0.623 1.146 1.121 0.387 0.166 | 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 | | RGB | | |
| A construction of colors and a construction o | | -37.67 69.38 -4.82 1.65 64.43 -50.45 7.92 35.07 -62.43 3.8 -34.91 | -49.17 -6.6 89.34 4 41.91 25.12 -45.82 -56.54 0.05 27.32 23.93 | 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | 1.25 0.154 -0.027 1.42 0.158 0.982 1.182 0.903 0.889 0.112 1.21 | 0.313 1.117 0.04 1.487 1.113 0.384 0.964 1.262 0.147 0.204 0.748 | 0.107 0.51 0.821 1.599 1.296 0.932 0.465 0.367 0.352 0.391 1.419 | 0.642 0.561 -0.009 1.394 0.561 0.623 1.146 1.121 0.387 0.166 0.94 | 0.05 | | RGB | | |
| t of colors Jobs Custr A A B I A A A A A A A A A A A A A A A A | 55.76 51.68 90.45 20.59 50.65 52.17 32.3 31.16 65.11 75.46 35.38 60.55 | -37.67 69.38 -4.82 1.65 64.43 -50.45 7.92 35.07 -62.43 3.8 -34.91 17.76 | -49.17 -6.6 89.34 4 41.91 25.12 -45.82 -56.54 0.05 27.32 23.93 49 | 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | 1.25 0.154 -0.027 1.42 0.158 0.982 1.182 0.903 0.889 0.112 1.21 0.237 | 0.313 1.117 0.04 1.487 1.113 0.384 0.964 1.262 0.147 0.204 0.748 0.748 | 0.107 0.51 0.821 1.599 1.296 0.932 0.465 0.367 0.352 0.391 1.419 0.995 | 0.642 0.561 -0.009 1.394 0.561 0.623 1.146 1.121 0.387 0.166 0.94 0.386 | 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 | | RGB | | |
| t of colors Jobs Custo a custo Name Cyan Magenta Yellow Black Red Green Blue Violet Seafoam Beige Ivy Tan Orange 021c | a 55.76 51.68 90.45 20.59 50.65 52.17 32.3 31.16 65.11 75.46 35.38 60.55 64.1 | -37.67 69.38 -4.82 1.65 64.43 -50.45 7.92 35.07 -62.43 3.8 -34.91 17.76 63.8 | -49.17 -6.6 89.34 4 41.91 25.12 -45.82 -56.54 0.05 27.32 23.93 49 78.1 | 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | 1.25 0.154 -0.027 1.42 0.158 0.982 1.182 0.903 0.889 0.112 1.21 0.237 -0.027 | 0.313 1.117 0.04 1.487 1.113 0.384 0.964 1.262 0.147 0.204 0.748 0.447 1.127 | 0.107 0.51 0.821 1.599 1.296 0.932 0.465 0.367 0.352 0.391 1.419 0.995 1.676 | 0.642 0.561 -0.009 1.394 0.561 0.623 1.146 1.121 0.387 0.166 0.94 0.386 0.282 | 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 | | RGB | | |
| t of colors Jobs Custa A A P P A Name A Cyan Magenta Yellow Black Red Green Blue Volet Seafoam Beige Ivy Tan Orange 021c Warm Grey 3c | L a S5.76 51.68 90.45 20.59 50.65 52.17 32.3 31.16 65.11 75.46 55.38 60.55 64.1 76.64 | -37.67 69.38 -4.82 1.65 64.43 -50.45 7.92 35.07 -62.48 -34.91 17.76 63.8 2.22 | -49.17 -6.6 89.34 4 41.91 25.12 -45.82 -56.54 0.05 27.32 23.93 49 78.1 7.7 | 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | 1.25 0.154 -0.027 1.42 0.158 0.982 1.182 0.903 0.889 0.112 1.21 0.237 -0.027 0.131 | 0.313 1.117 0.04 1.487 1.113 0.384 0.964 1.262 0.147 0.204 0.748 0.447 1.127 0.172 | 0.107 0.51 0.821 1.599 1.296 0.932 0.465 0.367 0.352 0.391 1.419 0.995 1.676 0.207 | 0.642 0.561 -0.009 1.394 0.561 0.623 1.146 1.121 0.387 0.166 0.94 0.386 0.282 0.162 | 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 | | RGB | | |
| t of colors Jobs Custr A A B H A Name Cyan Magenta Yellow Black Red Green Blue Violet Seafoam Beige Ivy Tan Orange 021c Warm Grey 3c Red 032c | 55.76 51.68 90.45 20.59 50.65 52.17 32.3 31.16 65.11 75.46 35.38 60.55 66.31 76.64 97.664 | -37.67 69.38 -4.82 1.65 64.43 -50.45 7.92 35.07 -62.43 3.8 -34.91 17.76 63.8 2.22 70.81 | -49.17 -6.6 89.34 4 41.91 25.12 -45.82 -56.54 0.05 27.32 23.93 49 78.1 7.7 37.99 | 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | 1.25 0.154 -0.027 1.42 0.158 0.982 1.182 0.903 0.889 0.112 1.21 0.237 -0.027 0.131 0.028 | 0.313 1.117 0.04 1.487 1.113 0.384 0.964 1.262 0.147 0.204 0.748 0.447 1.127 0.172 1.208 | 0.107 0.51 0.821 1.599 1.296 0.932 0.465 0.367 0.352 0.391 1.419 0.995 1.676 0.207 1.039 | 0.642 0.561 -0.009 1.394 0.561 0.623 1.146 1.121 0.387 0.166 0.94 0.386 0.282 0.162 0.415 | 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 | | RGB | | |
| to f colors Jobs Custo Jobs Custo Name Cyan Magenta Yellow Black Red Green Blue Violet Seafoam Beige Ivy Tan Orange 021c Warm Grey 3c Red 032c Blue 072c | L a 55.76 51.68 90.45 20.59 50.65 52.17 32.3 31.16 65.11 75.46 35.38 60.55 64.1 76.64 56.69 16.43 | -37.67 69.38 -4.82 1.65 64.43 -50.45 7.92 35.07 -62.43 3.8 -34.91 17.76 63.8 2.22 70.81 26.89 | -49.17 -6.6 89.34 4 41.91 25.12 -45.82 -56.54 0.05 27.32 23.93 49 78.1 7.7 37.99 -68.95 | 3333333333333333333333333 | 1.25 0.154 -0.027 1.42 0.982 1.182 0.903 0.889 0.112 1.21 0.237 -0.027 0.131 0.028 2.071 | 0.313 1.117 0.04 1.487 1.113 0.384 0.964 1.262 0.147 0.204 0.748 0.447 1.127 0.172 1.208 1.588 | 0.107 0.51 0.821 1.599 1.296 0.932 0.465 0.367 0.352 0.391 1.419 0.995 1.676 0.207 1.039 0.495 | 0.642 0.561 -0.009 1.394 0.561 0.623 1.146 1.121 0.387 0.166 0.94 0.386 0.282 0.162 0.415 1.968 | 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 | | RGB | | |
| st of colors Jobs Custr A A B H A Name Cyan Magenta Yellow Black Red Green Blue Violet Seafoam Beige Ivy Tan Orange 021c Warm Grey 3c Red 032c | 55.76 51.68 90.45 20.59 50.65 52.17 32.3 31.16 65.11 75.46 35.38 60.55 66.51 76.64 97.664 | -37.67 69.38 -4.82 1.65 64.43 -50.45 7.92 35.07 -62.43 3.8 -34.91 17.76 63.8 2.22 70.81 | -49.17 -6.6 89.34 4 41.91 25.12 -45.82 -56.54 0.05 27.32 23.93 49 78.1 7.7 37.99 | 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | 1.25 0.154 -0.027 1.42 0.158 0.982 1.182 0.903 0.889 0.112 1.21 0.237 -0.027 0.131 0.028 | 0.313 1.117 0.04 1.487 1.113 0.384 0.964 1.262 0.147 0.204 0.748 0.447 1.127 0.172 1.208 | 0.107 0.51 0.821 1.599 1.296 0.932 0.465 0.367 0.352 0.391 1.419 0.995 1.676 0.207 1.039 | 0.642 0.561 -0.009 1.394 0.561 0.623 1.146 1.121 0.387 0.166 0.94 0.386 0.282 0.162 0.415 | 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.05 | | RGB | | |

The database organizes the work by Color, Customer, and Job making it easy for production personnel to use and understand the system.

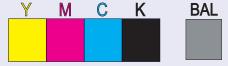
Physical samples are measured with the instrument and automatically written to the database with Lab and Density values, a user-entered color name, and delta E and density tolerances. A representation of the color is generated on-screen for confirmation to the operator. Once the sample is measured the operator has the option to accept the entry, as shown here.

Once the color sample is named and accepted it becomes part of the List of Colors as shown.

BETA EYE SCAN COLOR BARS

The BETA EYE SCAN CUSTOM GRAY BALANCE COLOR BAR SYSTEM is designed for faster make ready, precise press monitoring and quicker turn around using a densitometer for objective measurements and optical tools for subjective evaluation. This SEE IT and MEASURE IT system is a precise, cost effective control system guaranteed to produce the highest quality printing. The heart of the system is a customized color bar designed to match the size of your press and numbered ink keys in exact alignment to the ink keys of the press thereby making faster and more accurate corrections.

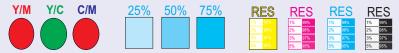
Targets of solid yellow, magenta, cyan, black, and gray balance appear in every ink zone for ultimate control across the full width of the sheet. Trapping, dot gain, and resolution targets are centered for smaller sheets.



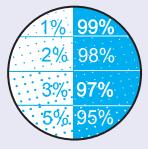
50 BAL



CMYK and Gray Balance appear in every ink zone. 50% and Gray Balance appear every 4th zone



RESOLUTION TARGETS WITH MICRO DOTS of 1%, 2%, 3%, and 5% minimum printable dot targets detect press slur and doubling. Maximum printable dot targets of 95%, 97%, 98% and 99% indicate press slur, print contrast problems and/or plate production errors. **Call for more information**



Betaflex PRO PLATE & IMAGE ANALYZER

Better, More Cost Effective Flexo From Superior Image Analysis In One Affordable Easy-To-Use Device



THE WORLD STANDARD FOR VIEWING COLOR

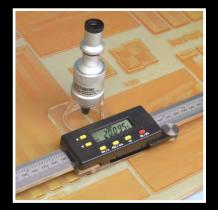


PRECISION DIGITAL ELECTRONIC RULERS

Precise, Non-contact Measurement of Large and Small Distances Small details such as barcode lines can be measured within the eyepiece of the 50x microscope, while the cross hair in the microscope is used to locate larger details

Sizes:

Ruler 16in. (406 mm) Ruler 24in. (610 mm) Ruler 30in. (762 mm) Ruler 40in. (1016 mm) Ruler 60in. (1524 mm) Ruler 80in. (2032 mm)





BETA QUALITY CONTROL PRODUCTS

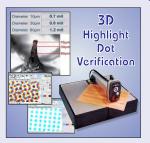


BETACOLOR XPRESS DENSITOMETERS Advanced User Friendly LED technology. No light bulbs to replace, chargers or cables. Seven year warranty on LED's



PRESTO & PRESTO DELTA E

Low cost, high quality solution for Density, Dot Gain, Gray Balance, & Spot Color Matching. The Spectro version features Delta E.



BETAFLEX PRO FLEXO IMAGE ANALYZER

Measure HD Flexo Plates, Masks, Stain Density, Dot Area, Screen Ruling, Film, & Offset Plates. 3D quality control Dot Imaging index.

FREE 10-DAY TRIAL



DIGITAL MICROMETERS

Precise measurements of paper, plates, blankets and packing. Display 0.0005 in. or 0.01mm. Spring loaded anvil assures accuracy.



PRECISION RULERS

Precise, non-contact measurement of distances on films, plates, dies, & prints. Available as Electronic Ruler or Video Ruler.



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Portable, hand-held analysis of crease height, width, angles, and symmetry.





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