Learning Activity Package

CGS Oris Color Tuner Proofing Software: Setting Up a Proofer Queue

Assignment

3 Color Label Assignment

Purpose

Matching a spot color between proofer and a target color - in this case, the spot color produced from the pressrun.

Definitions:

Spot Color
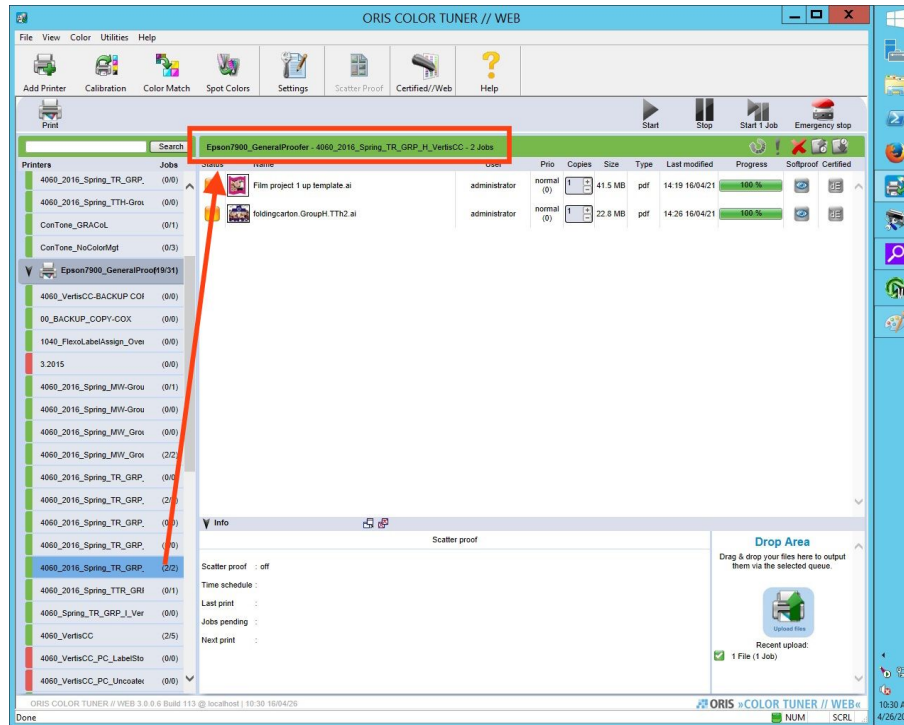
Proofer Queue

Color Library

CIELAB color

Color Table

Procedure:

1. Open the **CGS Oris Color Tuner Proofing Software** on the lab computer outside of Room 100 A (the one next to the Epson proofer). Select the GC 4060 queue on the left side of the program and go to the file you have named. Select duplicate queue. This will duplicate

the Pantone library so that you can personalize the L*a*b* values for your specific proof so that the proof will print to match the press.

2. When the box comes up for the new queue, name it "4060_[year]_Spring/Fall_MW/TTh_GRP_GroupLetter/#_VertisCC, check the box at the top left, and select the Epson 7900 Printer (General Proofer.)

3. Select "Okay" to make the queue.

4. Once queue is made and shows up in the left column, select it.


5. Open the MeasureColor software found on the desktop of the computer. With this software, you will measure the L*a*b* values from your original proof printed on the Epson 7900 and compare them to

the L*a*b* values measured with the Eye1Pro spectrophotometer on the printed labels to determine difference, the Delta E.

6. Click on the "Spot Color Tool" so that you are taken to this screen:
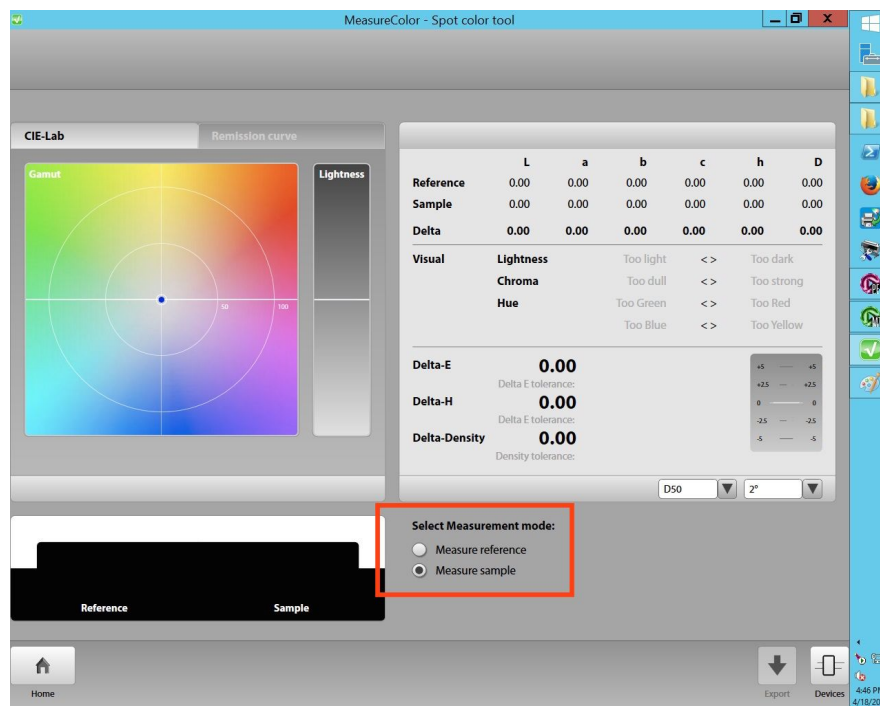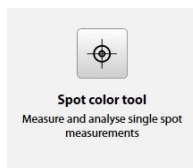
7. Select "Measure Reference" at the bottom of the screen. On your printed label sheet, choose a solid Pantone spot color block from your color bars located on the side of the sheet, place the

spectrophotometer over the solid block of the spot color, and press the sides of the spectrophotometer so the values appear on the screen. Then, to measure your original proof, select "Measure Sample" at the bottom of the screen and repeat the same process to measure the values of the Pantone spot color. If you are prompted by the computer to calibrate the spectrophotometer, place the spectrophotometer on it's holder and press to calibrate.

8. After both the sample and reference are measured, a Delta E is calculated, showing the difference that resulted from your proof to what actually printed on press. Write down/screen shot your L*a*b* values and Delta E value so you can input them in the proofing software. When comparing the proof from your file to the printed sample, the Delta E will most likely be high.

9. Also in the MeasureColor screen, there will be Visual measurement suggestions for the Lightness, Chroma, and Hue. Take note of these suggestions because you may use them to adjust the CMYK levels in the CGS Oris Color tuner Proofing Software.

10. Repeat the same process for your other spot colors.

11. Now, using the values from MeasureColor, you will change the L*a*b* values in your proofer queue to match what you got on press; this will allow you to print a more accurate press proof representation.

12. Go to the CGS Oris Color Tuner Proofing Software and click on "Settings."

13. Go to "Spot Color Correction" and click "Edit."
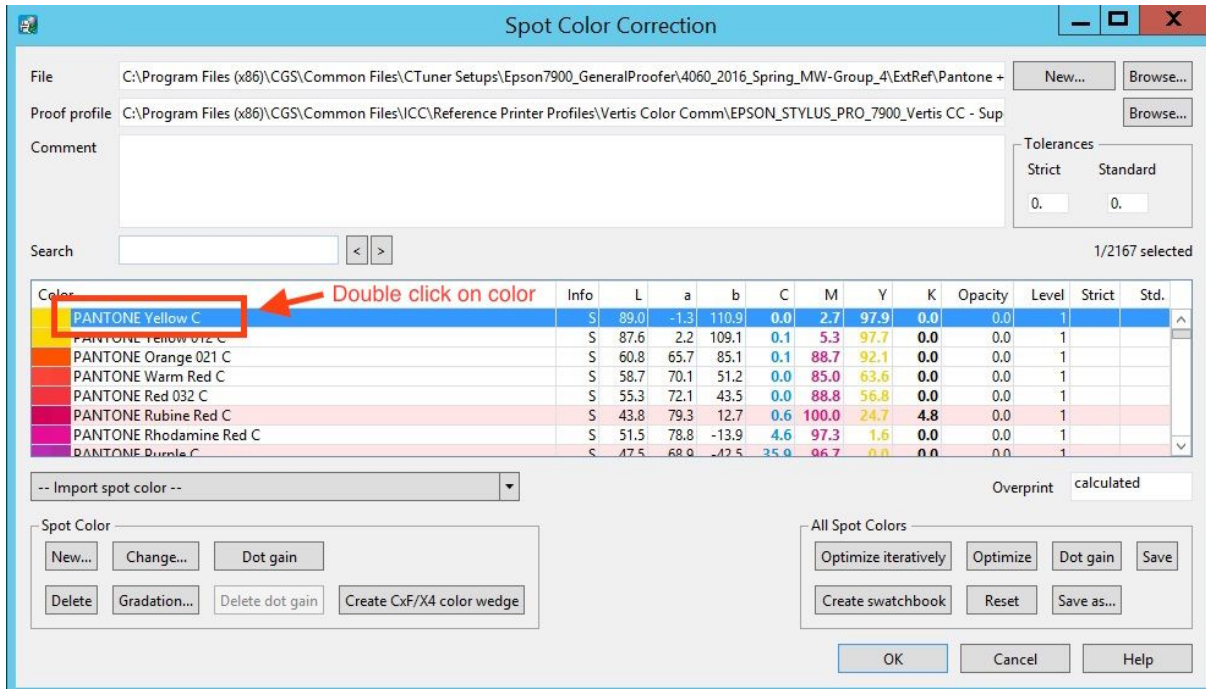
14. The Pantone library should pop up. Look for one of your spot colors. These are not necessarily ordered by number, but through groups of of colors; if one of your colors isn't popping up by name, search for the group of similar colors (ex: we couldn't find Pantone 600C and had to go look for the group of yellow inks to find it.)

15. Once you have found one of your colors, **double click** on it.

Manual Spot Color Input

Color name: PANTONE 3115 C

Tonal values (%): 100

Opacity (%): 0.   Print order: 1. color over CMYK

Tolerances — Strict: 0.   Standard: 0.

Lab Color
- L: 65.5
- a: -20.3
- b: -4.51

Original Device Color: 0.24   dE   0.24
C45 M4 Y24 K24: 0.19   dE2000   0.19

Device Color
- C: 45.14
- M: 4.32
- Y: 24.02
- K: 24.11

L65.7 a-20.3 b-4.6

Measurement device: Eye-One   Select   Start measurements

Optimize   Optimize visually   Smoothen   Reset   Add

OK   Cancel   Help

16.   Fill in the L*a*b* numbers you recorded from the spectrophotometer readings from the printed sample. The color should now appear closer to the printed color.

17.   If it does not appear very close, correct the colors by changing the CMYK values using suggestions from MeasureColor that you recorded previously.

18.   Select "optimize" once you are satisfied with the appearance of your personalized color.

19.   Select okay and do the same for the rest of your colors.

20.   When you are done changing all of your colors to match your printed sample, drag your proof file from the 406 folder in the GC server into your queue. It should begin to print on the Epson proofer.

21.   Once proof has been printed, measure the L*a*b* values of these colors once again from the new proof using the spectrophotometer and the Measurecolor software. If the Delta E (ΔE) between the printed sample and the new proof is larger than 5, you may have to alter the values again until you can get it under 5 for all colors.