

Using the P2P25 Target

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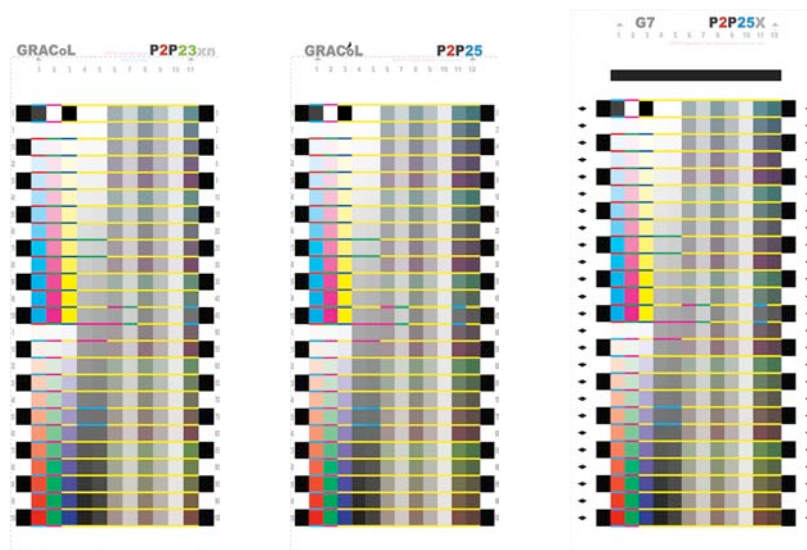
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Main changes since last document version

- Be sure to download the new P2P25_Package_011808 (free at http://www.hutchcolor.com/Images_and_targets.html)
- The new package has a new P2P25X3 reference file for MeasureTool
- Use version 1.1b6 of IDEALink Curve™ or later - (free upgrade at <http://www2.chromix.com/idealink/support/index.cxxsa?pid=1.ILC1>)
- Improved trimming instructions for the DTP70 with the P2P25X
- Caution about custom-generated targets

Introducing the P2P25

The latest version of the P2P target has twelve columns of patches instead of eleven columns in the P2P23. The extra column analyzes gray balance up to cyan 87.5%, which is useful on proofing devices. The first eleven columns are identical to the P2P23. The P2P25X3 target was added January 2008 to include crop marks for the DTP70, but is otherwise identical to the P2P25X.



Versions of the P2P target: P2P23 (left), P2P25 (center), P2P25X3 (right)

Compatible software

Versions of IDEALink™ Curve from v1.1 onward automatically recognize data from both the P2P23 and P2P25, however P2P25 data is not recognized by older versions of ILC. **NOTE: You should be using version ILC v1.1b6 or later.**

If you have printed the P2P25 and are using an earlier software version, you can measure just the first 11 columns of the P2P25 target with the X-Rite Eye-One or

SpectroScan using the old P2P23 reference file. If you are using a DTP70 and an earlier software version, you must measure the whole P2P25 target, then delete the last column of data points (last 25 rows of data) in a program like Microsoft Excel, and save the data as a new file.

Note that when averaging files from both the P2P23 and 25 targets in one session, ILC 1.1 disregards the last column of the P2P25 data. For more details see the latest IDEALink™ Curve User Guide (April 2007).

Why two P2P25 target images?

The P2P25 target image is exactly the same size as the older P2P23 image and can be read in X-Rite ColorPort on the DTP70 and EyeOne, or in MeasureTool on the SpectroScan, Eye-One and Eye-One iO.

The P2P25X target is slightly larger than the P2P25, but has the advantage of being compatible with five automated measuring devices; Eye-One iSis (MeasureTool), DTP70 (ColorPort), Eye-One iO (both), Eye-One Pro (both) and SpectroScan (MeasureTool).

When measuring in ColorPort or MeasureTool, be sure to load the correct reference file. Different files are provided for both targets, with the instrument and target version (P2P25 or P2P25X) identified in the reference file name.

Note: iSis will not measure the P2P25X in ColorPort but it will work in MeasureTool in demo mode (no dongle required).

Custom-generated and oversize targets

If your measuring device or software does not work with either of the supplied targets, it may be possible to create a custom target (e.g. in X-Rite ColorPort or MeasureTool) from the P2P25.txt definition file, but be aware of the following:

- Custom-generated target images MUST contain fractional percentage values, especially in light patches below 10%. Rounding fractional percentages to integers may lead to inaccurate G7 calibration.
- Note that the official supplied TIFF target images use LSB (least significant bit) dithering to simulate better than 8-bit accuracy. This extra precision will be lost in custom-generated targets.

If your printing device requires a larger (or smaller) target, it is safe to enlarge the supplied targets in Photoshop or the RIP, but **DO NOT RE-SIZE THE TARGET** unless your measuring device and software can handle the size change.

Printing the target

- If calibrating a press, print at least two targets rotated 180° from each other and average the readings from both targets on several sheets.
- A proofing system usually requires only one target.

- Make sure nothing is printed on the reverse side of the targets. If back-printing is necessary, either measure with black backing or make sure the reverse image is a flat tint of uniform color across the whole P2P area.

Cropping and sizing

- Some measuring devices or software are extremely size-sensitive, especially DTP70 and ColorPort. **DO NOT RE-SIZE THE TARGET** unless your measuring device and software can handle the size change.
- iSis requires the P2P25X target. Most other devices can read either the P2P25 or the P2P25X, with the appropriate reference files. If you will not use iSis it is best to print the P2P25.
- DTP70 requires at least 2mm of white space outside the black boxes.
- For a hand-held Eye-One Pro or SpectroScan you may crop off the iSis diamonds and the black DTP70 boxes for a smaller target area.

Trimming the printed target

- Except where noted below, DTP70 and iSis require the top and sides of the target to be trimmed on the faint dotted lines.
- To read the P2P25X on DTP70 trim the leading edge (top) on the tips of the small arrows. The P2P25X3 target includes DTP70 crop marks.
- For best results on iSis and DTP70, leave at least 1" (2.5 cm) extra paper below the bottom dotted line. If necessary, carefully tape a strip of extra paper at the bottom of the target.

Measuring one P2P25X with multiple devices

- To measure a P2P25X on both iSis and DTP70, measure FIRST on iSis, then slice off the diamonds, leaving as much white outside the row of black boxes as possible, then read SECOND on DTP70.
- The DTP70 may not accept a target with the iSis diamonds.

Using MeasureTool to read the P2P25X

- Select the 'P2P25X_iSis3.txt' reference file
- Measure the target
- Save the file as a '.txt' document

Using MeasureTool to read the P2P25

- Select the 'P2P25.txt' reference file
- Measure the target
- Save the file as a '.txt' document

Using X-Rite ColorPort to read the P2P25X

Initial installation

- Launch ColorPort
- From the 'File' menu, open 'Target Manager' and Import all three .xml files;
- 'P2P25X Eye-One iO.xml'
- 'P2P25X Eye-One Pro.xml'
- 'P2P25X DTP70.xml'

Measuring with the Eye-One iO

- Click the 'Measure Target' tab.
- In the 'Target' pop-up list select ... 'P2P25X Eye-One io.xml'
- Measure the target and save the file as a CGATS document.

Measuring with the Eye-One Pro

- Click the 'Measure Target' tab.
- In the 'Target' pop-up list select ... 'P2P25X Eye-One Pro.xml'
- Measure the target and save the file as a CGATS document.

Measuring with the DTP70

- Click the 'Measure Target' tab.
- In the 'Target' pop-up list select ... 'P2P25X DTP70.xml'
- Measure the target and save the file as a CGATS document.

Using X-Rite ColorPort to read the P2P25

Initial installation

- Launch ColorPort
- From the 'File' menu, open 'Target Manager' and Import the two .xml files;
- 'P2P25_Eye-One.xml'
- 'P2P25_DTP70.xml'

Measuring with the Eye-One iO

- Click the 'Measure Target' tab.
- In the 'Target' pop-up list select ... 'P2P25_Eye-One.xml'
- Measure the target and save the file as a CGATS document.

Measuring with the DTP70

- Click the 'Measure Target' tab.
- In the 'Target' pop-up list select ... 'P2P25_DTP70.xml'
- Measure the target and save the file as a CGATS document.