Rendering

This tool isn't available as an icon like other links and tools, but is an extension to the *Printing* submenu of OneVision's main menu. It allows you to calibrate your system to different output devices.

Together with the *Curve Calculation* panel (;TMSPrintParameterGenerator.rtfd;;¬), the *Rendering* tool offers functions for creating print parameters that may be used for documents or individual elements.

Renderings describe transformations that include separations curves for gray calibration and color calibration. OneVision provides some standard rendering functions that can be copied and modified.

Rendering Functions
The panel displays a selection list containing all available rendering functions. The pull-down list *<Rendering>* offers the commands *<Duplicate>* and *<Remove>* for duplicating and removing existing list entries. Duplicated renderings can be renamed and modified to fit your personal requirements.

Note: The standard rendering functions of OneVision can be removed in a OneVision session. However, they are generated again when starting the application the next time.

All rendering functions in the list are immediately available as separation and print parameters (;../TMSSep/TMSSep.rtfd;;¬) to be assigned to documents or elements.

Unbuntabgleich;¬Gray Calibration
This enables you to define curves for *Black Generation* (BG

;../TMSSep/TMSSepBasics.rtfd;BG;¬) and *Undercolor Removal* (UCR ;../TMSSep/TMSSepBasics.rtfd;UCR;¬). You can construct these curves in the curve editor or take them from the *Curve Calculation* panel using *Drag-and-Drop*.

If you don't define the color black in the color calibration, the gray component calibration enables you to define how to calculate the black plate. This depends on the intensity of the CMY colors and on how much color is removed from them to compensate for the generated black.

<u>Note</u>: Grays and black are always separated into the black plate. This is independent of any other settings.

Observe
If this option is enabled, the set separation curves are observed during color calibration.

<u>Note</u>: You can process the curves only if this option is enabled.

Buntabgleich;¬Color Calibration
For calibrating colors, a field of 27 reference colors is supplied. It consists of   red, green and blue, each displayed with intensities of 0%, 50%, and 100%.

paste.tiff ¬
Figure: The reference colors field for color calibration

The calibration defines which CMYK proportions are used to reproduce each of the 27 colors. The 27 color swatches behave like color well icons. Clicking on one of the swatches opens the color selection panel (;../OneVision/WorkingIntro/Colors.rtfd;;¬).

Calibrating Colors
Two factors must be reckoned when calibrating colors:
a) Define black plate via color calibration
Here the values for all <u>four plates (CMYK)</u> are adjusted for the correct reproduction of the color concerned.

b) Define black plate with BG/UCR
Here only the values for the tertiary colors (CMY) are adjusted for the correct reproduction of the color concerned.
The switch <*Observe*> for <*Gray Calibration*> must be on. The settings for BG and UCR should be defined via the Curve Editor, or retrieved from the Curve Calculation (;TMSPrintParameterGenerator.rtfd;;¬).

The calibration has to be done for each of the 27 color swatches. The best way to obtain correct values is by using test prints.

Single Color Preview;¬Single Color Preview
This servers as an additional help for estimating color transformations into the CMYK   color model. The left   color well icon is used as the input field, in which, for example, you can drag a color of the RGB color model. The right color well, then, displays how this color would appear in the CMYK model. The CMYK values are also displayed numerically in the text fields on the right. The data format for this values can be selected in the upper of the two pop-up lists. You can choose among <%>. <*8 Bit*>, and <*16 Bit*>. The second pop-up list defines the destination color model. This is CMYK and can't be changed.

Next: ;TMSPrintParameterGenerator.rtfd;;¬   Curve Calculation
             ;../TMSSep/TMSSep.rtfd;;¬   Separation and Print Parameters
             ;../TMSSep/TMSSepBasics.rtfd;;¬ Separation Basics and Transfer Curves