

040b73747265616d747970656481a203840163c48403737373810a0a810b0b815f5f84012584067f411b312d37OneVision: Tools ± Multidensitometer

Multidensitometer

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The Multidensitometer is found in the *Tools* menu of OneVision's main menu. After clicking the menu entry, a panel like this appears:

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Figure: The Multidensitometer panel, containing one densitometer

The upper part of the panel shows a single densitometer. If you enlarge the panel, a number of identical displays appear. Each of the densitometers behaves in the same way.

Placing Sensors

Each Densitometer has its own sensor. As long as the sensor for a densitometer has not been placed, no data is displayed. A sensor for reading color information from an image is placed as follows:

- move your mouse over the blue sphere
- press the left mouse button and keep it pressed down
- move the mouse pointer to the spot in the image whose color values you want to obtain, and release the mouse button.

While moving the mouse pointer, a line is drawn that links the sensor icon to the cursor. When the mouse cursor is moved over a OneVision-Image element, this element automatically becomes preselected. You can reach elements that lay behind a top-level

element by descending or ascending through the layers using the *Arrow-Up* or *Arrow-Down* keys. The color values of the pixel that lays inside the cursor is immediately displayed in the densitometer from which the sensor has been dragged.

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Figure: Placing a sensor in an image

After releasing the mouse button, the sensor is fixed in the image. For each densitometer, you can place one sensor in any image, on any page, in any document.

You can change the location of a sensor by dragging it once again from the densitometer. A sensor is removed if you drop it outside of an image element.

Sensor Indicators

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This figure shows a sensor indicator for which no sensor has yet been placed. If a densitometer is not used, this is also indicated by a short note on its left side.

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After having placed a sensor for a densitometer, a small red sphere appears. It has two functions. First, it indicates that there is a sensor placed for this densitometer. Second, clicking on the red sphere displays the connection between the densitometer and its sensor.

Hint: The display of the connection between sensor and densitometer can also be used for setting markers in documents. If

you click on the red sphere of a densitometer whose sensor is currently not on screen, the corresponding image, page, or document will appear. If the sensor is located in a miniaturized document, it will be brought to screen; if the sensor is on a different page, the corresponding page will be shown; if the sensor is out of the displayed area on the current page, the page will be scrolled to make the sensor visible. Sensors are only temporary, though, and won't be saved with the document.

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Sensors can also connect densitometers. To do this, drag a sensor from one densitometer to the indicator of another one. If a densitometer is connected to a second one, a green sphere is displayed beneath the indicator instead of a red one. You can build up chains of densitometers, but no circles. You may want to connect densitometers for viewing the color values of a specific pixel in different color models.

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Figure: Connecting two densitometers

The connection of a densitometer is not affected by moving or removing the original sensor in an image.

Color Wells

On the left of the sensor indicator, there is a color well that shows the color of the pixel underneath the sensor. Above the sensor indicator there is a second color well, which in most cases is empty. This color well displays the color of the sensed pixel if preview data are used. The radio buttons above the color wells let you determine

if the numerical display of the color values should be applied for the original data or, if available, for the preview data.

Color Model Selection

When the sensor of a densitometer is placed, it shows the sensed values in a column on the left. These values can be displayed in different color models. If you move the mouse into the left half of a densitometer and press the left mouse button, a pop-up list appears, from which you can choose your preferred color model. In addition to *<Grayscale>*, *<RGB>*, *<HIS>*, and *<CMYK>*, you can also choose *<Variable>* or *<Special>*.

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Figure: Selecting a color model

If the default setting *<Variable>* is selected, the type of the image in which the corresponding sensor is located determines the color model in which the color values are displayed. If *<CMYK>* is selected and the corresponding image is not a CMYK image, it is separated according to your print parameters. If you change the parameters for separation, the values displayed by the densitometer will change accordingly.

The setting *<Special>* is only enabled for single-channel images or bit masks. For such images, two color wells for the original data are shown with this option. The lower one contains the base color of the image with its full tonal value, i.e., 100%. The upper one shows the base color with the tone value of the sensed pixel. This value is also displayed numerically on the left, labeled with ^aV: ° for *Value*. If you are using a color with a name as base color (e.g., a spot color, a

pantone color, or a custom color) this name also appears in the densitometer.

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Clicking on the Multidensitometer icon in the bottom line of the panel shows all connections between existing densitometers and sensors.

Options

The options for the Multidensitometer can be viewed by clicking the *<Options>* button in the bottom line of the panel.

Display Values

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In this portion of the options panel, you can define what format is used for the numerical display of color values. You can choose among *<%>*, *<8 Bit>*, and *<16 Bit>*. You can also specify whether the values of the transparency (i.e. the alpha channel) should be shown.

Sensor Matrix

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This portion of the panel specifies how pixels underneath the sensor are read. You can specify the size of the sensor matrix as follows:

- by moving the slider
- by entering a value in the entry field
- by dragging the mouse cursor in the matrix display

If you activate the *<Circle Approximation>* option, the pixels in the outer area are weighted to create the impression of a circular

sensor. This is indicated by different shades of gray in the matrix display. This option can also be switched on and off by a mouse click inside the sensor matrix.

Data Evaluation

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This portion of the panel lets you simultaneously change the color models or data types for all existing densitometers of a particular sensor type. For example, say you want all densitometers that are linked to other densitometers (i.e., the ones with the green spheres) to evaluate only preview data and use the RGB color model. In this case, you would make sure that only the rightmost sensor type is selected and then execute the command *<Preview>* from the *<Data Type>* pop-up list, as well as the command *<RGB>* from the *<Color Model>* pop-up list. Immediately all corresponding densitometers would change their displays accordingly.

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