User Guide
Addendum

English

oXYgen Scanning Application

399Z3R171C

www.creo.com/scanners

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This addendum to the *oXYgen Scanning Application User Guide* (399Z1P555C) contains updated information about oXYgen Scan software (as of version 2.0), as well as additional information for iQsmart scanner users.

Additional Tools and Features

Negative End Points

Note: This feature is available as of as of oXYgen Scan version 2.4.0 for the iQsmart[1] scanner, as of oXYgen Scan version 2.2.0 for iQsmart[2] and iQsmart[3] scanners, as of oXYgen 2.3.0 for EverSmart Supreme and EverSmart Select scanners, and as of oXYgen Scan version 2.3.5 for the EverSmart Pro II scanner.

The Negative End Points feature combines the End Points tool and the Negative Balance tool. With Negative End Points, you can:

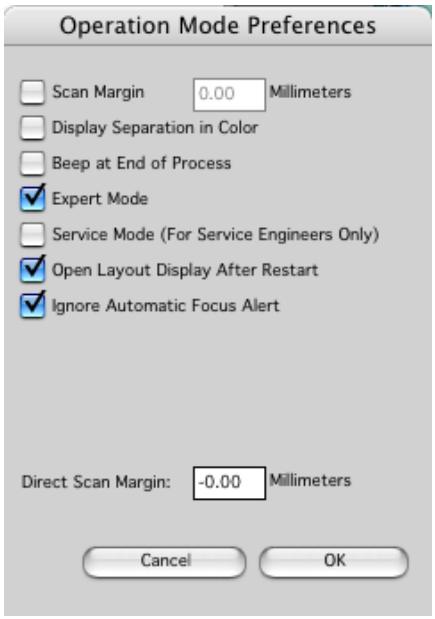
- Save Negative End Points settings for one image and apply them to a batch of images.
- Change the Negative Balance.
- Set the White Point and the Dark Point, and then save the settings.
- Work with Fixed or Balanced Negative End Points.

Setting Negative End Points Mode

You can work with Fixed or Balanced Negative End Points. Fixed Negative End Points are not affected by Auto Analyze whereas Balanced Negative End Points are affected.

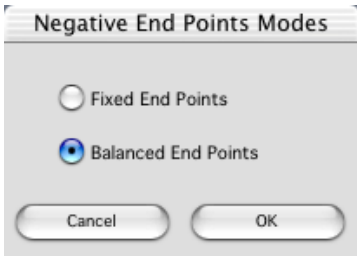
1. From the menu, select **Setup>General Preferences>Operation Modes**.

   The Operation Mode Preferences window opens.



2. In the Operation Mode Preferences window, select the **Expert Mode** check box.
3. From the menu, select **Setup>Expert Preferences>Negative End Points Mode**.

   The Negative End Points Mode window opens.



4. In the Negative End Points Modes window, select **Fixed End Points** or **Balanced End Points**.

Notes:

Fixed Negative End Points can only be used in **Fixed End Points** mode and Balanced Negative End Points can only be used in **Balanced End Points** mode.

When working in **Fixed** mode, you can only use SmartSets created in **Fixed** mode. When working in **Balanced** mode, you can only use SmartSets created in **Balanced** mode.

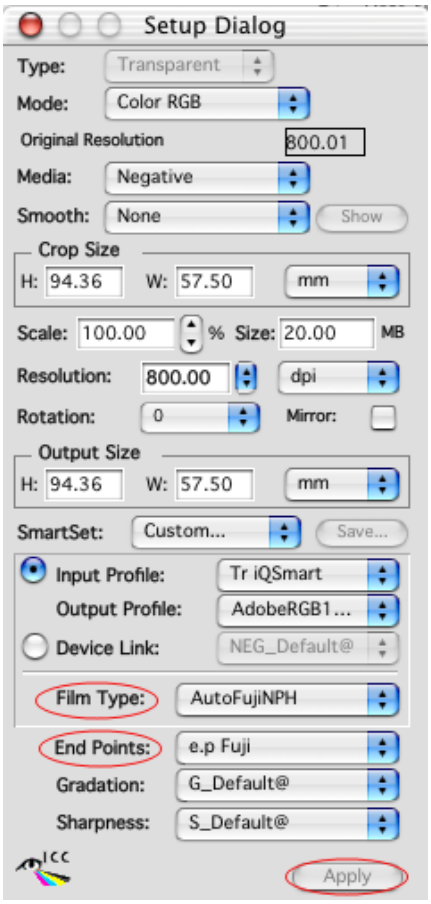
Recommended Workflow

1. Select a **Film Type**.
2. Remove the **Original Cast**.
3. Set the **Neutral Point**.

   If there is no appropriate neutral point on the image, click the Pick Sample button, then select a point on a known element (such as grass, skin-tone, or sky).
4. Use **Exposure** to adjust the overall image exposure.
5. Set the **White Point** and the **Dark Point**, as required.

Preparing to Set Negative End Points

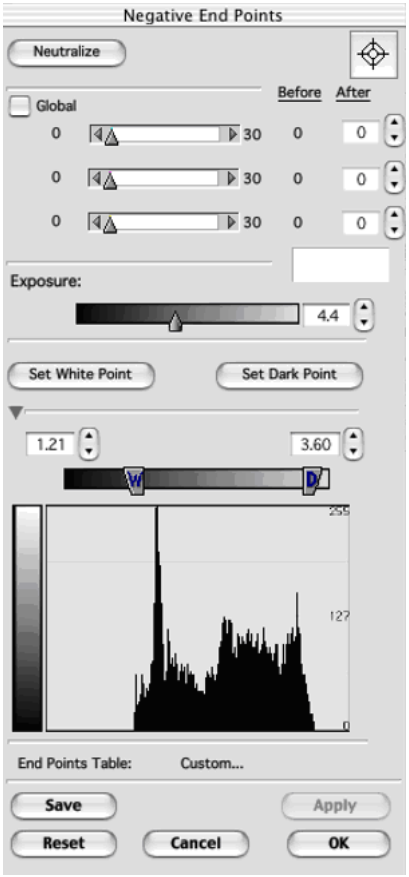
1. In the Setup Dialog, select a **Film Type** and an **End Points** table.
2. Click **Apply**.

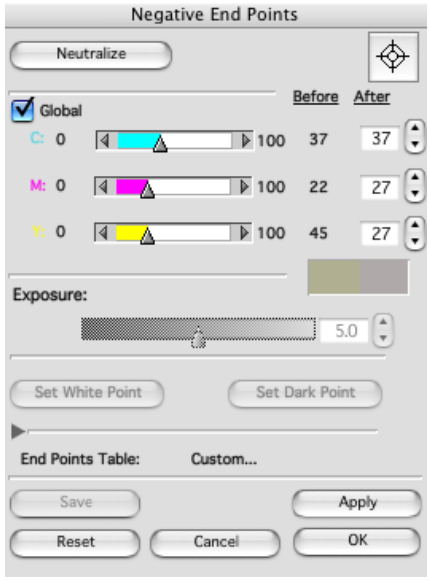


Setup Dialog with important settings for preparing Negative End Points circled

Using Negative End Points Tools

Negative End Points tools are located in the Negative End Points dialog box.





Setting the Neutral Point

1. In the Negative End Points dialog box, click **Neutralize**.
2. Select a point on the image.

Note: If there is no appropriate neutral point on the image, click the Pick Sample button, and then select a point on a known element (such as grass, skin-tone, or sky).

3. Click **Apply**.

Picking a Sample

1. Click the Pick Sample button.

   The **Global** check box is selected automatically. The entire image is adjusted according to the sample you select.

2. Select a point on the image.

3. Adjust R, G, B or C, M, Y values with the sliders, the up and down arrows beside each **After** value box, or by entering numbers in any of the **After** value boxes.

Note: If you prefer that only the highlights, mid-tones, or shadows will be affected, after you click the Pick Sample button, unselect the **Global** check box. The changes you make to the RGB or CMY values are applied only to the areas of the image that fall within the sample's range. For example, if you select a point in the shadow range of the image, changes to RGB or CMY values are only applied to the shadow areas.

4. Click **Apply.**

Setting Exposure

1. Use the Exposure slider to change the exposure. The display image changes accordingly.
2. Click **Apply.**

Setting the White Point or Dark Point

1. Click **Set White Point** or **Set Dark Point.**
2. Select a point on the image that you want to set as the White Point or Dark Point.
3. Adjust the value of the White Point or Dark Point.
4. Use the **W** handle on the slider to adjust the value of the White Point. Moving the **W** handle to the left on the slider, darkens the white areas of the image. Moving the **W** handle to the right on the slider, lightens the white areas of the image.
5. Use the **D** handle on the slider to adjust the Dark Point. Moving the **D** handle to the left on the slider, darkens the dark areas of the image. Moving the **D** to the right on the slider, lightens the dark areas of the image.
6. You can also adjust the White Point or Dark Point values with the up and down arrows beside the value box or by entering a value in the value box.
7. Click **Apply.**

Saving the Settings

➢ Click the **Save**.

The Save window opens. When you save the Negative End Points settings under a new name, the name appears in the **End Points** list in the Setup Dialog. The **Film Type** that you initially selected (see *Preparing to Set Negative End Points* on page 3) is automatically saved with the Negative End Points settings.

Toning Feature

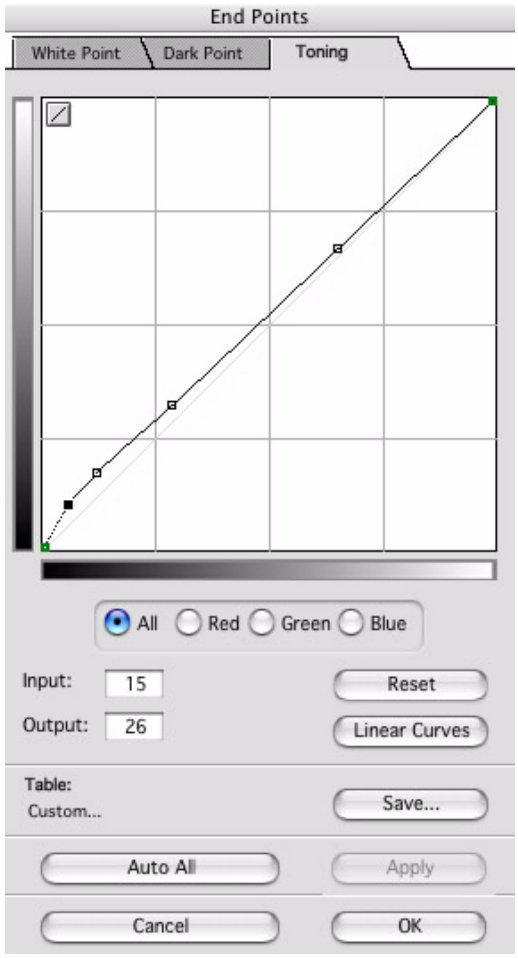
Note: This feature is available as of oXYgen Scan 2.4.2 for the iQsmart family of scanners and as of oXYgen Scan version 2.4.1 for EverSmart Supreme II and EverSmart Select II scanners.

Toning enables you to manipulate image tone according to your specific requirements. On the **Toning** tab of the End Points dialog box, you can save tone corrections together with White Point and Dark Point changes as an **End Points** table. You can make changes to each of the R,G, and B channels separately, or simultaneously to all.

Recommended Workflow

1. Preview the image you want to change.
2. Click the **End Points** button.
3. In the End Points dialog box, on the **White Point** tab, click **Set White Pt**.
4. Click the point on the image where you want to set the White Point.
5. Click **Apply**.
6. On the **Dark Point** tab, click **Set Dark Pt**.
7. Click a point on the image where you want to set the dark point.
8. Click **Apply**.

Adjusting the Tone Curve



To adjust image tone, use one of the following methods:

- Drag the tone curve according to your requirements.
- In the Preview window, click the image in the area you want to change, and then drag the tone curve or enter a new **Output** value.

To view your changes in the Preview window:

1. Click **Apply.**
2. If you want to save changes in an End Points table, click **Save.**
3. Click **OK.**

Note: It is recommended that you make only a minor change to the position of the point.

Options for Reverting Tone Curve Changes

- **Reset:** All separation curves are reset to the position they were in when you last opened the **Toning** tab.
- **Linear Curve:** Select **Red**, **Green**, or **Blue**, and then click **Linear Curve** to reset the curve of the selected separation to a straight line at a 45 degree angle.
- **Auto All**: The **AutoNormal@** table appears in the Setup dialog box. Automatic analysis of the image is made according to this table, and then toning changes are applied.

Important: Drastic toning changes may damage the image file. Keep changes to a minimum.

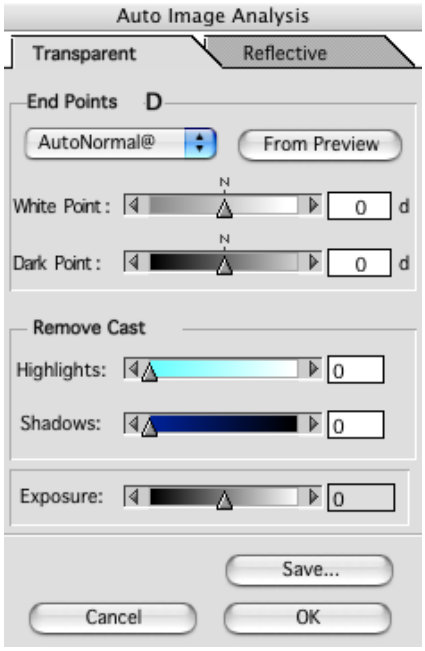
Working with Auto Image Analysis

With this tool, you can create an Automatic End Points table. This type of table performs an automatic analysis of an image that includes additional manipulations that you specify.

After you make toning changes, you can create an Automatic End Points table that includes those changes.

To create an Automatic End Points table:

1. From the **Setup** menu, select **General Preferences>Operation modes.**
2. In the Operation Modes dialog box, select the **Expert Mode** check box.
3. From the **Setup** menu, select **Expert Preferences>Auto Image Analysis**.



4. Select the **Transparent** tab or the **Reflective** tab according to the original type.

5. Click **From Preview.**

   The toning changes you made are included in the Automatic End Points table.

6. Click **Save.**
7. Enter a name for the revised table.
8. Click **OK**.

   A new **Auto** table is created.

Increasing Productivity

Productive Group Scan

Notes:

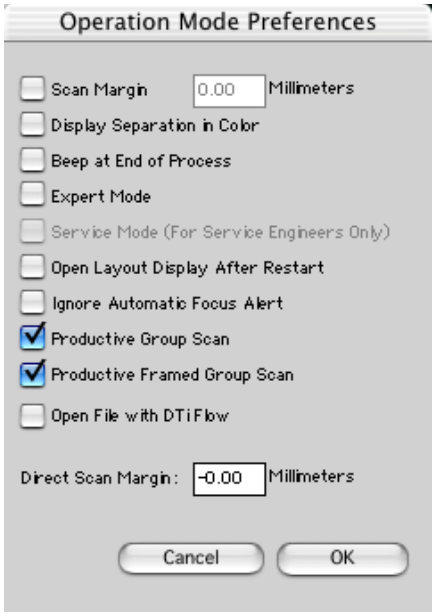
This feature is available as of oXYgen Scan version 2.4.0 for the iQsmart[1] scanner (as a default mode), as of oXYgen Scan version 2.2.3 for iQsmart[2] and iQsmart[3] scanners, and as of oXYgen Scan version 2.3.0 for EverSmart Supreme II, EverSmart Supreme, EverSmart Select II, and EverSmart Select scanners.

As of oXYgen Scan 2.4.2, this feature is available for the iQsmart[2] scanner without the extended dongle.

This feature enables you increase productivity when you scan multiple images. There are two productive group scan modes: **Productive Group Scan** and **Productive Framed Group Scan**.

To select a group scan mode(s), use one of the following methods:

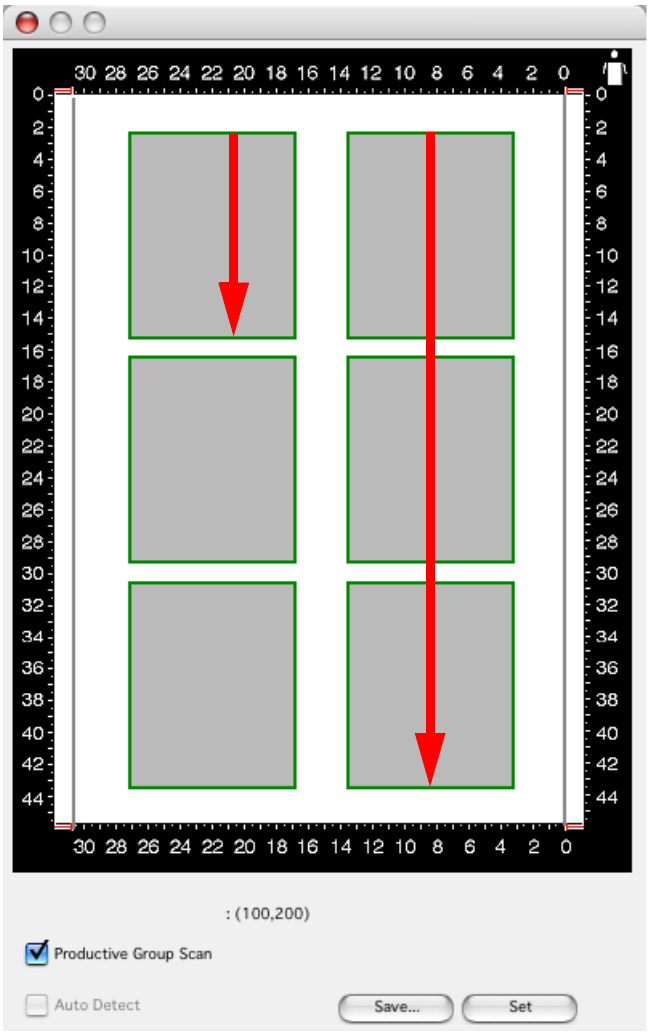
- In the lower section of the Layout Display window, select the **Productive Group Scan** or **Productive Framed Group Scan** check box.
- From the **Setup** menu, select **General Preferences>Operation Mode**, and then select the group scan mode(s) that suits the originals you are scanning.



To perform a productive group scan:

1. Mount the slides in a mask or slide holder.
2. In the Setup dialog box, select the settings you require.

The selected mask appears in the Layout Display window.



Layout Display window with scanning pattern indicated

Note: The **Format** option you select in the Setup dialog box, determines whether the **Productive Group Scan** or the **Productive Framed Group Scan** check box appears.

3. Click the **Preview** icon.

   The Preview thumbnails appear in the **Queue** window.

Notes:

The Preview scan begins at the top of the right column, from top to bottom, and then continues from the top of the next column to the left.

Images for a productive group scan are automatically grouped.

4. Edit the image according to your requirements (for example, color and sharpness settings).
5. On the **Scan** palette, click the **Scan** icon.

6. In the Save Scan As dialog box, type a file name, select a location in which you want the file to be saved, and then click the **Scan** button.

   The image is scanned.

7. In the Preview browser, click the next preview thumbnail.
8. Repeat steps 10 and 11 for each image.

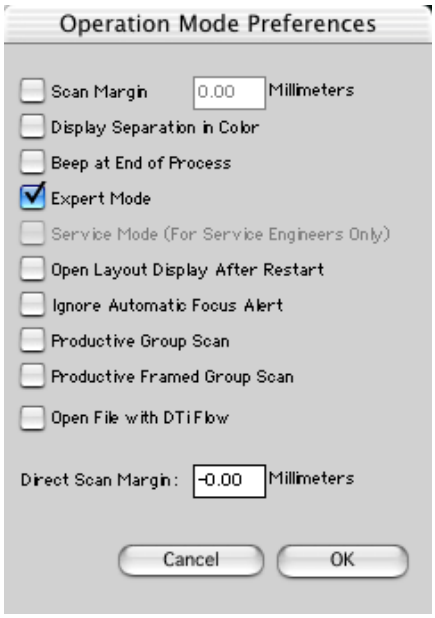
Note: Final scans are performed in the same order as preview scans.

Fast Motor Scan

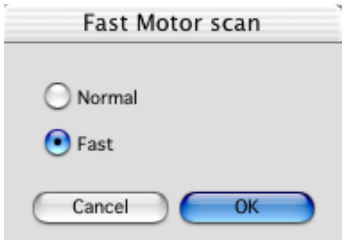
Note: This feature is available as of oXYgen Scan version 2.4.0 for the iQsmart[1] scanner, and as of oXYgen Scan version 2.2.3 for iQsmart[2] and iQsmart[3] scanners.

Use the Fast Motor Scan feature to increase the speed of large previews, such as **All Board** or **Half Board**.

1. In the Operation Mode Preferences dialog box, select the **Expert Mode** check box.



2. From the **Setup** menu, select **Expert Preferences>Fast Motor Scan.**



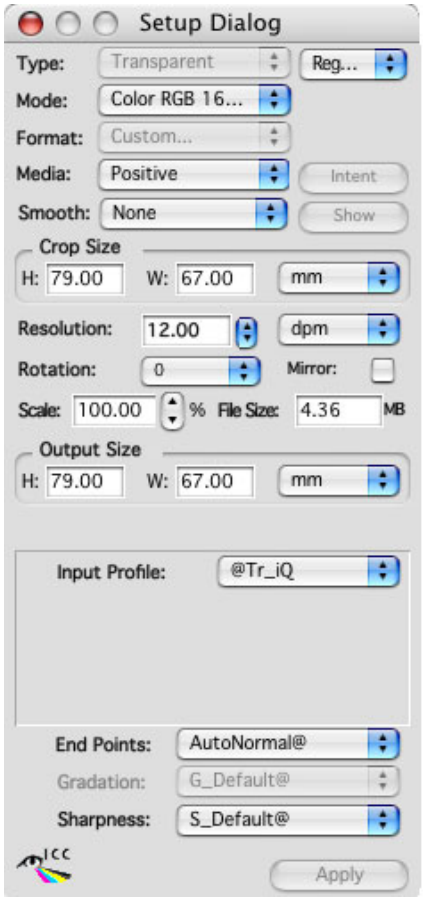
3. Select **Fast**, and then click **OK**.

16-bit RGB Scanning Mode

Note: This feature is available as of oXYgen Scan version 2.4.0 for the iQsmart family of scanners and as of oXYgen Scan version 2.4.1 for EverSmart Supreme II and EverSmart Select II scanners.

In the new 16-bit RGB scanning mode, you can manipulate 16-bit image files without significantly affecting color depth or the characteristics of the image. Color transition is smoother than it is when you use 8-bit files.

Recommended Workflow



1. In the Setup dialog box, from the **Mode** list, select **Color RGB 16-bit.**
2. From the **Input Profile** list, select an input profile for the scanner that you are using.
3. In the Setup dialog box, select other parameters as required.
4. **Preview** the images.

5. Use the application tools according to your requirements. The tools available when you are using 16-bit RGB scanning mode, are:
   - **End Points:** Allows you to use the same tables for both 16-bit and 8-bit files.
   - **Sharpness**: Allows you to use the same tables for both 16-bit and 8-bit files.
   - **Color Correction**: You must save changes for them to be implemented in the image. A new input profile is created that includes the changes.
   - **LS Curves:** You must save changes for them to be implemented in the image. A new input profile is created that includes the changes.
   - **Input Gray Levels**: This tool enables you to control the gray levels of your image.
6. Click **Scan** to save the image.

   A 16-bit file is created.
7. In Adobe® Photoshop® software, open the image, and then adjust it according to your requirements.
8. If you want to convert the file to CMYK, in Adobe Photoshop software, select **Image>Mode>CYMK Color** or **Image>Mode>Convert to Profile**.
9. If you want to convert the file to 8-bit, in Adobe Photoshop software, select **Image>Mode>8 Bit/Channel**.
10. Save the file.

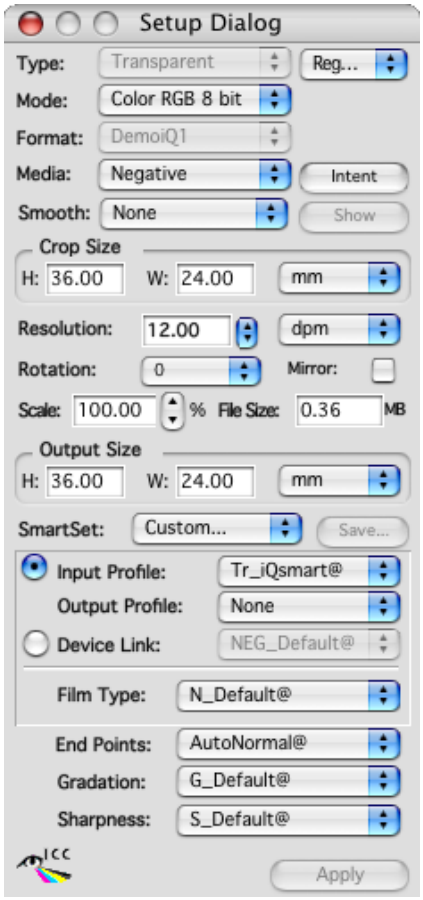
Quick Balance Tool for Negative Tone Control

Note: This feature is available as of oXYgen Scan version 2.4.0 for the iQsmart family of scanners and as of oXYgen Scan version 2.4.1 for EverSmart Supreme II and the EverSmart Select II scanners.

The new Quick Balance tool enables you to change negative color balance and exposure, quickly, and conveniently.

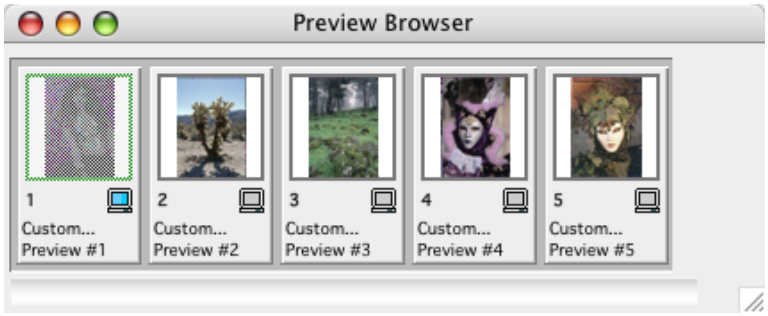
You can increase productivity, especially when you work with a batch of negatives. The Quick Balance tool automatically opens when the Preview window opens.

Recommended Workflow



1. In the Setup dialog box, from the **Image Type** list, select **Transparent.**
2. From the **Media** list, select **Negative**.
3. Click **Intent.**

4. If you select **Balanced**, the color of the negative image is balanced.
5. If you select **Vivid**, the colors are enhanced.
6. Click **OK**.
7. In the Setup dialog box, select all other parameters, including the **Input Profile**, **Output Profile**, and **Film Type**.
8. Preview the images.



9. In the Preview Browser, double-click an image to select it.

   The image appears in the Preview window. The Quick Balance tool opens.

Note: If you are working with an RGB image, the Quick Balance tool contains RGB controllers. If you are working with a CMY image, the Quick Balance tool contains CMY controllers.

10. Click the minus and plus buttons to adjust the image exposure.
11. When the exposure is correct, click the number buttons to adjust color.
12. Repeat steps 9-11 for other images.

Note: After you complete color changes for an image, you can save the changes as an End Points table by clicking **Save** in the End Points dialog box. The End Points table can then be applied to other images.

Tip: You can also use the keyboard numberpad to make changes with the Quick Balance tool.

Using Auto Detect

Notes:

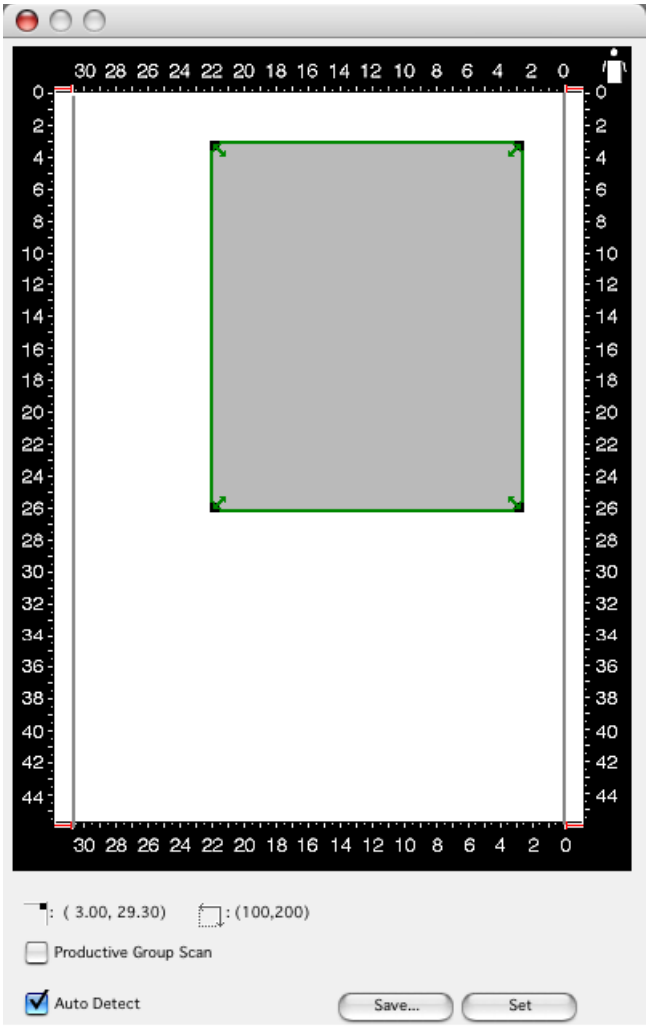
This feature is available as of oXYgen Scan 2.0 for the iQmart family of scanners, EverSmart Supreme and EverSmart Select scanners, and the EverSmart Pro II scanner.

You can only use **Auto Detect** with transparencies.

Auto Detect is an automatic cropping tool that creates crops of any previewed area without masks. The **Auto Detect** icon is located in the Layout Display window.

Recommended Workflow

1. In the Layout display window, select the area you want to scan.



2. Click **Auto Detect**.
3. On the toolbar, click **Preview**.

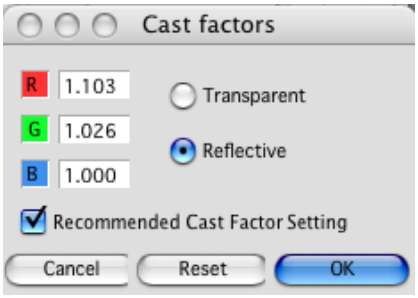
   The scanner previews the selected area. When the preview is complete, the display window opens and shows a master preview that includes the preview image and the automatically detected crops.

4. Adjust the crops as you require.
5. Click **Preview** to create a preview of each crop, and then continue your scanning workflow.

Resetting Cast Factors

Note: If you set cast factors using a version of oXYgen Scan software earlier than version 2.1.0, and you are using an iQsmart^2, iQsmart^3, EverSmart Supreme, or EverSmart Select scanner, scans may have a slightly different cast due to an updated cast factor method.

To apply cast factor settings used in an earlier software version:



➢ In the Cast factors dialog box, clear the **Recommended Cast Factor Setting** check box.

Notes:

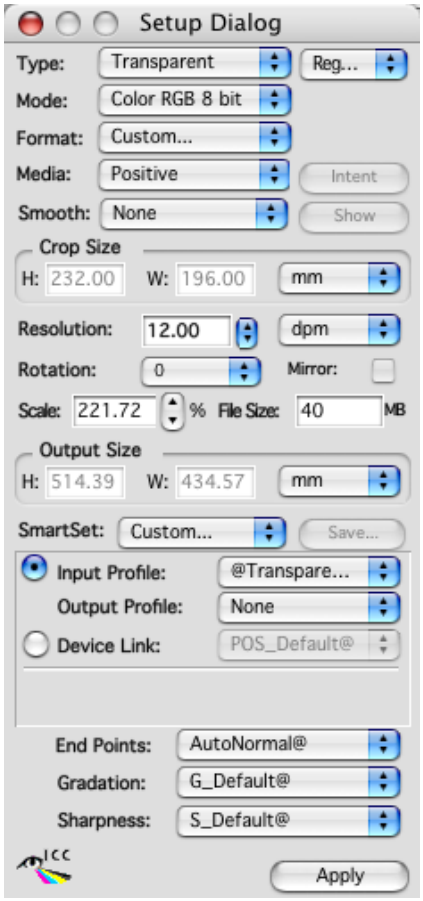
If you delete the **Preferences** file or reinstall the software, the **Recommended Cast Factor Setting** check box is automatically selected.

After you manually adjust cast factors, you must quit and then restart the oXYgen Scan software.

Saving Input Profiles

Note: This feature is available as of oXYgen Scan 2.2.4 for the iQsmart family of scanners and as of oXYgen Scan 2.3.0 for the EverSmart family of scanners.

You can edit and save a custom input profile. In this way, you can apply color space changes without affecting raw image data.



Recommended Workflow

1. In the Setup dialog box, select **Input Profile**.
2. In the **Output Profile** list, select **None**.
3. Make the color adjustments you require.
4. Click **Save**.

   The changes are saved in a new input profile.
5. Click **Scan**.
6. In the Save Scan As dialog box, it is recommended that you select the **With Embedded ICC Profile** check box.

DT Workflows

Note: The Creo DT and Creo DT Tone Plug-ins are available as of oXYgen Scan version 2.4.0 for the iQsmart^3 scanner, as of oXYgen Scan version 2.4.2 for iQsmart^1 and iQsmart^2 scanners, and as of oXYgen Scan version 2.4.1 for EverSmart Supreme II and EverSmart Select II scanners.

Creo DT Plug-ins

A DT file is a raw-data, 16-bit file. The new Creo DT Tone plug-in enables you to manipulate DT files in Adobe Photoshop software and proceed directly to output. Together with the Creo DT plug-in, that enables you to retouch a DT file in Adobe Photoshop software and reopen the file in the oXYgen Open application, this provides a complete solution when working with DT files.

Creo DT Plug-in Workflow

1. Make sure the Creo DT plug-in is installed in **File Format** folder, located in the Adobe Photoshop **Plug-Ins** folder.
2. In the Adobe Photoshop software, select **File>Open**.
3. In the Open dialog box, from the **Format** list, select **Creo DT**.
4. Retouch the file.
5. Save the file in **Creo DT** file format.
6. To continue working on the file, open it in the oXYgen Open application.

For further information about DT files, go to:

http://www.creo.com/global/products/scanning_systems/color_scanners/smart_tip_DT.htm

Creo DT Tone Plug-in Workflow

1. Make sure the **Creo DT Tone** plug-in is installed in **File Format** folder, located in the Adobe Photoshop **Plug-Ins** folder.
2. In the Adobe Photoshop software, select **File>Open**.
3. In the Open dialog box, from the **Format** list, select **Creo DT Tone.**

   The file is opened in 16-bit RGB color mode. Sharpness is not applied to the file.
4. Modify the file.
5. Convert the file to 8-bit RGB or CMYK, as you require.
6. Save the file.

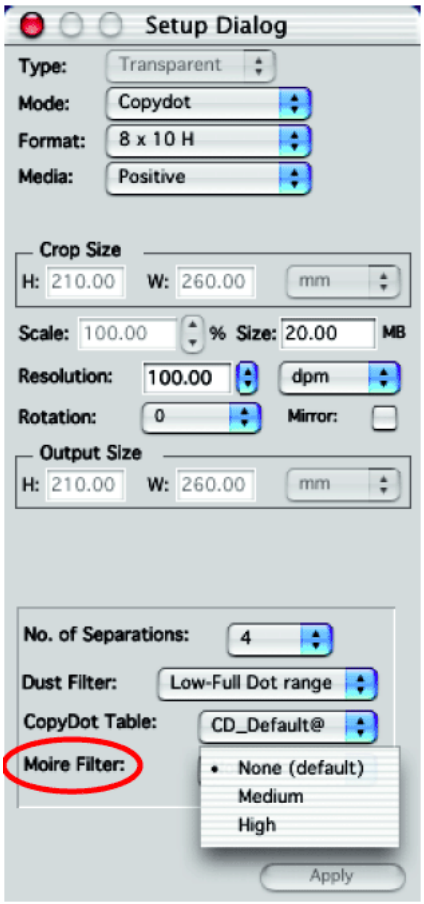
Note: A file opened with the **Creo DT Tone** plug-in cannot be saved as a Creo DT file and then opened in oXYgen Open software. This may corrupt the file.

For oXYgen DOT Users

Moiré Reduction Filter for Copydot Scans

Note: This feature is available as of oXYgen Scan version 2.4.0 for the iQsmart^3 scanner, and as of version 2.3.2 for EverSmart Supreme, EverSmart Supreme II, EverSmart Select, and EverSmart Select II scanners.

Moiré effect sometimes occurs in copydot scans. oXYgen DOT software includes three levels of moiré filters that can be applied to reduce moiré effects.



To reduce moiré effect:

- In the Setup dialog box, in **Moire Filter**, select a filter level according to the following table of typical occurrences of the moiré effect:

Original Screen Ruling	Original Screen Angle	Original Areas with Dot Percentages	Moire Filter Level
60 LPI to 150 LPI	Traditional	0% to 100%	None (default)
60 LPI to 150 LPI	0° and 45°	40% to 100%	Medium
150 LPI to 200 LPI	Traditional	0% to 50%	Medium / High
150 LPI to 200 LPI	0° and 45°	30% to 200%	High

Notes:

The moiré effect may also occur when you use other screen angles or resolutions that are not included in the above table. In such cases, use the **Moire Filter**.

The **Moire Filter** can be set for individual separations. For example, in a 4-separation job, you can scan each separation using a different **Moire Filter** level.

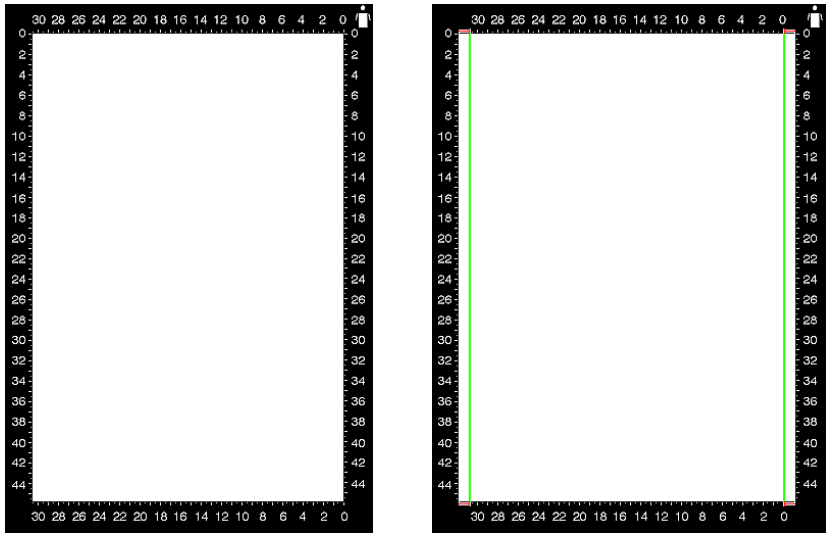
For more information about copydot scanning, see the *oXYgen Dot for iQsmart Scanners User Guide* (399Z151895D).

Other Information for iQsmart Users

About the Base Glass

iQsmart[1] and iQsmart[2] scanners are supplied with a 12 x 18 inch base glass.

The iQsmart[3] scanner is supplied with a 13 x 18 inch base glass for copydot and reflective scans of up to 550% at a 12 dpm resolution (approx. 300 dpi) or at an equal scaling per resolution. If you scan a reflective original with a greater resolution or a transparency, you must scan it within the 12 inch boundary of the 13 inch base glass.



Left: 12 in. base glass as it appears in Layout Display window;
Right: 13 in. base glass as it appears in Layout Display window with green lines indicating the 12 in. boundary

About the Light Table

With the iQsmart[3] scanner, you can use the base glass as a light table for evaluating and mounting original images.

To turn on the Light Table:

1. Open the top cover of the scanner.
2. Press the **Status** button on the operating panel.

To turn off the Light Table:

➢ Close the top cover of the scanner.