PTC®

Arbortext® IsoView® User's Reference

Arbortext IsoView 7.2

April 2011

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About This Guide

This *Arbortext IsoView User's Reference* provides the information you need to use Arbortext IsoView; a compact, distributable viewer that enables you, your colleagues, or your customers to interactively view, manipulate, and annotate content in technical illustration files.

Arbortext IsoView enables you to easily publish 2D and 3D illustrations and animations to multiple media formats in an interactive environment that can be integrated with external authoring and publishing applications.

Prerequisite Knowledge

The prerequisite knowledge you need to use Arbortext IsoView depends on how you will use it: as a reader, an illustrator, or a developer.

- Reader: If you will be running an application that launches Arbortext IsoView automatically, this guide has all you'll need to know in order to view and interact with technical graphics in the Arbortext IsoView window.
- Illustrator: If you plan to prepare drawings and animations for viewing in Arbortext IsoView, you will need a basic knowledge of Arbortext IsoDraw in addition to the instructions in this guide. See the documentation in the Arbortext IsoDraw Help Center. (Run Arbortext IsoDraw, then choose **Help ▸ Help Center**.)
- Developer: If you plan to customize Arbortext IsoView (via the Arbortext IsoView application programming interface) to work, for example, as an embedded viewer in a third-party application, you will need the same knowledge as an illustrator (see above), plus, some experience programming simple object-oriented/event-driven scripts in languages such as JavaScript or

VBScript. (See the *Arbortext IsoView Programmer's Reference*, also available in the Arbortext IsoDraw Help Center.)

Organization of This Guide

Each section of this *Arbortext IsoView User's Reference* is summarized below.

Section	Description
About Arbortext IsoView on page 11	Describes what Arbortext IsoView is and what tasks you can perform with it. It also lists which file types can viewed in Arbortext IsoView and which graphics standards it supports.
The Arbortext IsoView Window on page 15	Familiarizes you with toolbar button functions in the Arbortext IsoView window.
Advanced Viewing Tasks on page 25	Provides instructions for tasks you can perform in Arbortext IsoView beyond simply viewing graphics and animations.
Arbortext IsoView Preferences on page 33	Describes preference settings in the Arbortext IsoView **Preferences** dialog box.

Related Documentation

For more information on Arbortext IsoView and Arbortext IsoDraw products, refer to the following documentation found in the Arbortext IsoDraw Help Center. Help Center includes both HTML and PDF versions of the documentation. Choose **Help** ▸ **Help Center**to access it.

For Arbortext IsoView information:

Documentation	Description
Arbortext IsoView Release Notes	Information about new, changed, and deleted features in this Arbortext IsoView release.
Arbortext IsoView Installation Guide	Installation and licensing information for Arbortext IsoView.
Arbortext IsoView User's Reference	(This guide) Instructions for using the tools and functions in Arbortext IsoView, and for setting preferences.
Arbortext IsoView Programmer's Reference	Reference for writing API scripts that customize and extend the Arbortext IsoView ActiveX control.

For Arbortext IsoDraw information:

Documentation	Description
Arbortext IsoDraw Release Notes	Information about new, changed, and deleted features in this Arbortext IsoDraw release.
Installing Arbortext IsoDraw	Installation and licensing information for Arbortext IsoDraw.
Drawing Basics Tutorial	Hands-on examples for learning Arbortext IsoDraw basic functions.
3D Mode Tutorial	Hands-on examples for learning 3D CAD data editing functions using Arbortext IsoDraw.
Arbortext IsoDraw User's Reference	Comprehensive guide to using the tools and functions in Arbortext IsoDraw products.
Arbortext IsoDraw Macro Language Reference	Reference for writing macros that you can run in Arbortext IsoDraw.
Arbortext IsoDraw Data Exchange Reference	Instructions for importing and exporting graphics data in various formats to and from Arbortext IsoDraw.

Technical Support

Contact PTC Technical Support via the PTC Web site, phone, fax, or e-mail if you encounter problems using your product or the product documentation.

For complete details, refer to Contacting Technical Support in the PTC Customer Service Guide. This guide can be found under the Related Resources section of the PTC Web site at:

http://www.ptc.com/support/

The PTC Web site also provides a search facility for technical documentation of particular interest. To access this search facility, use the URL above and select Search the Knowledge Base.

You must have a Service Contract Number (SCN) before you can receive technical support. If you do not have an SCN, contact PTC Maintenance Department using the instructions found in your *PTC Customer Service Guide* under Contacting Your Maintenance Support Representative.

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Please include the following information in your email:

- Name
- Company
- Product
- Product Version
- Document or Online Help Topic Title
- Level of Expertise in the Product (Beginning, Intermediate, Advanced)
- Comments (including page numbers where applicable)

Documentation Conventions

This guide uses the following notational conventions:

- **Bold text** represents exact text that appears in the program's user interface. This includes items such as button text, menu selections, and dialog box elements. For example,

  Click **OK** to begin the operation.

- A right arrow represents successive menu selections. For example,

  Choose **File ▸ Print** to print the document.

- `Monospaced text` represents code, command names, file paths, or other text that you would type exactly as described. For example,

  At the command line, type `version` to display version information.

- *`Italicized monospaced text`* represents variable text that you would type. For example,

  `installation-dir``\custom\scripts\`

- Italicized text represents a reference to other published material. For example,

If you are new to the product, refer to the Getting Started Guide for basic interface information.

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About Arbortext IsoView

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Arbortext IsoView is an intelligent and highly capable technical illustration file viewer. It provides a single window in which you can view, markup, and interact with illustration file content, including 2D vector and raster elements, 3D objects, animations, and hotspot links.

The Arbortext IsoView viewer software is:

- Implemented as a Microsoft ActiveX control which can be run from Arbortext IsoDraw, or distributed for use in Internet Explorer, Visual Basic applications, Arbortext Editor authoring software, and other ActiveX-compliant environments.
- Compliant with industry standards, such as WebCGM 2.0, ASD S1000D, and ATA iSpec 2200.

Arbortext IsoView Functions

Arbortext IsoView enhances the experience of viewing technical graphics in interactive documents that are distributed electronically, such as illustrated parts catalogs, technical manuals, and work instructions.

The Arbortext IsoView ActiveX control enables users to do the following:

- Track dynamic links between text and 2D or 3D animations.
- Manage hotspots and animated events across both 2D and 3D content.
- Support all industry standard viewing for CGM and WebCGM.
- Display and print all major raster formats (TIFF, JPEG, PNG, BMP, PCX and CALS Raster).

Installed File Locations

Arbortext IsoView installs in the following folder by default:

Arbortext-IsoView-install-path\Program Files\PTC\Arbortext IsoView *x.x*

where *x.x* is the software version number. See the *Arbortext IsoView Installation Guide* for software installation and licensing instructions, and for Arbortext IsoView distribution guidelines.

Compatibility and Standards Support

In principle, the Arbortext IsoView ActiveX control may be used in all ActiveX-capable environments. It has been tested with the following third-party applications:

- Microsoft Internet Explorer 6.0, 7.0, 8.0
- Microsoft Visual Basic 6.0
- Microsoft Access 2000

When using Microsoft Internet Explorer, PTC strongly recommends version 6.0 or newer. Older versions do not support all the navigation methods available in Arbortext IsoView.

Viewable File Formats

Arbortext IsoView can open the following types of technical illustration files for viewing and—if the format supports it—interaction with intelligent objects in the file:

- Arbortext IsoDraw files (.iso)
- CGM
- ProductView files (.ol, .ed, .edz, .pvs, .pvz)
- SVG
- TIFF
- JPEG
- PNG
- PCX
- CALS Raster

WebCGM 2.0 and WebCGM DOM

Arbortext IsoView 7.0 and above supports WebCGM 2.0 and the WebCGM 2.0 DOM (Document Object Model).

For details regarding the WebCGM 2.0 DOM, please refer to the WebCGM 2.0 standard at: http://www.oasis-open.org/specs/index.php#webcgmv2.0, or the WebCGM 2.0 recommendation at http://www.w3.org/Graphics/WebCGM/WG/.

Unicode Support

Arbortext IsoView can handle WebCGM and Arbortext IsoDraw files containing Unicode characters. Thus, it is possible to store East-Asian language characters and western characters in one file. Object identifiers, attributes, and screen tips use Unicode as well.

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The Arbortext IsoView Window

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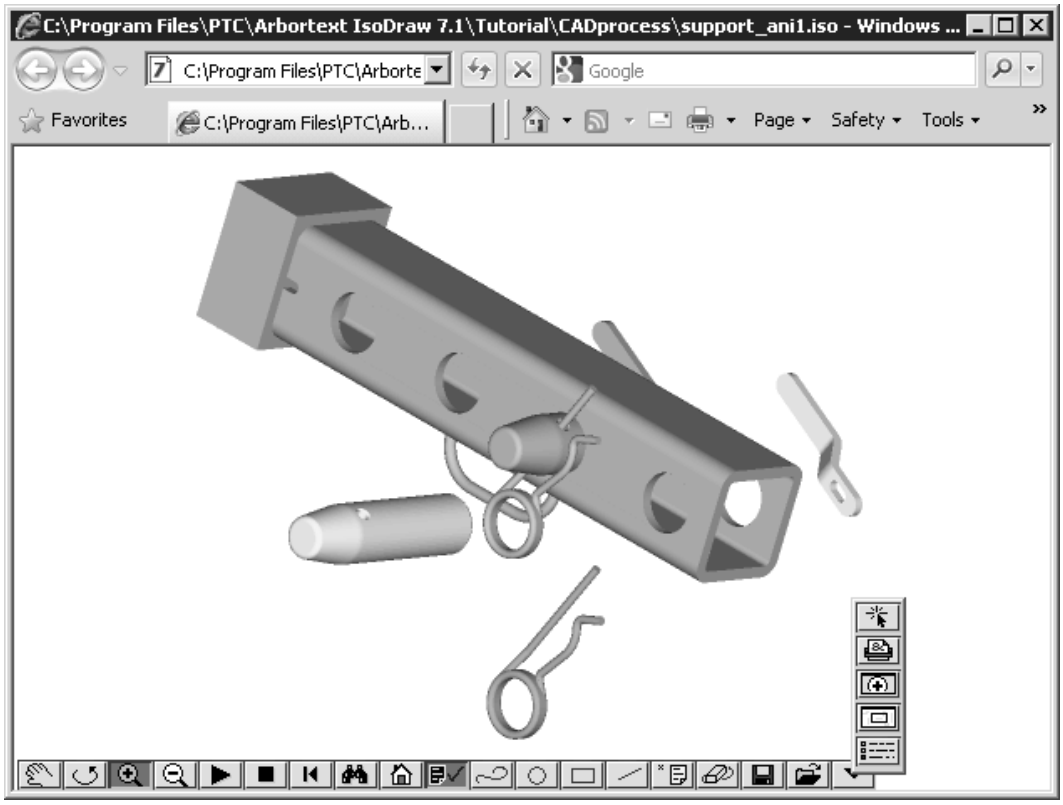
The Arbortext IsoView ActiveX control runs in a single window inside a container application, such as a Web browser or document authoring program. This section describes the window features and briefly describes how to use each one.

Arbortext IsoView Window Features

The ActiveX control window contains the current view of the open technical illustration file. It also includes a toolbar for interacting with the view and manipulating data in the file. (See Arbortext IsoView Toolbar on page 17.)



From the toolbar, you can open other components in the control's viewing area, including the:

- Search dialog box (see Searching for Elements and Objects in an Illustration on page 26
- **Magnifier** window (see Using the Magnifier Window on page 28)
- **Global View** window (see Using the Global View Window on page 29)
- **Preferences** dialog box (see Arbortext IsoView Preferences on page 33)
- **Print**, **Open**, and **Save As** dialog boxes

About the viewing area

The viewing area in the Arbortext IsoView window displays the default or initial view of the graphic when you open Arbortext IsoView.

Note

Some types of files enable you to specify the initial view by setting a view attribute in the file.

You use tools on the toolbar to change the view of the graphic in the viewing area. You can zoom in and out viewing area and pan the view in any direction. Resizing the Arbortext IsoView `window proportionally resizes the graphic in the viewing area.

About the toolbar

The toolbar enables you to do the following tasks:

- Manipulate your view of the graphic.
- Interact with intelligent objects in the graphic, such as hotspots, views, links, and animations.
- Add redlining information, such as lines, shapes, and text annotations, to the graphic.

About the Preferences dialog box

You can open a **Preferences** dialog box from the toolbar to view and change settings for the toolbar's position and appearance. You can also use it to change preference settings for other Arbortext IsoView window features, such as redlining, annotations, the display method, and the printing method. (See Arbortext IsoView Preferences on page 33.)

Arbortext IsoView Toolbar

When the Arbortext IsoView window opens, the toolbar appears in the bottom left corner by default.

You can change the toolbar's position and specify which buttons appear on it using the **Toolbar** preferences in the **Arbortext IsoView Preferences** dialog box. Since the toolbar is configurable through the **Preferences** dialog box, some toolbar buttons might appear in the toolbar, in the vertical popup toolbar, or be unavailable. (See Arbortext IsoView Preferences on page 33.)

The function of each toolbar button is summarized below.

Toolbar Button	Tool Tip	Description
	Pan	Moves the image in the Arbortext IsoView window in any direction. Select the **Pan** button, then drag the pointer in the window. The image moves in the dragging direction.
	Rotate	Rotates 3D objects in the window in any direction. (This toolbar button only appears if the file contains 3D objects.) Select the **Rotate** button, then click in the window and drag the pointer. The image rotates in the dragging direction.
	Zoom in	Increases the size of the graphic. Select the **Zoom in** button, then click the part of the graphic that you want to make larger. The graphic size increases while remaining centered on the part of the graphic that you clicked. Each time you click in the window, the graphic gets larger. You can also drag a selection rectangle around a region you want to zoom in on. When you release the mouse button, the region zooms to fit the entire window. Click to zoom in; SHIFT-click to zoom out; CTRL-click to zoom inside hotspots; Drag a selection rectangle to zoom in on a region. (If you have a mouse wheel, you also can roll it to zoom in/out.)
	Zoom out	Decreases the size of the graphic. Select the **Zoom out** button, then click the part of the graphic that you want to make smaller. The graphic size decreases while remaining centered on

Toolbar Button	Tool Tip	Description
		the part of the graphic that you clicked. Each time you click in the window, the graphic gets smaller. Click to zoom out; SHIFT-click to zoom in; CTRL-click to zoom inside hotspots. (If you have a mouse wheel, you also can roll it to zoom in/out.)
	Show objects with hotspots	Highlights hotspot objects in the graphic. Select the **Show objects with hotspots** button; all hotspots in the image are highlighted. The hotspots remain highlighted while the mouse button is pressed.
	Start animations	Starts animation. (This tool only appears if the file contains animation.) Click the **Start animations** button to start or resume an animation sequence.
	Stop animations	Stops animation. (This tool only appears if the file contains animation.) Click the **Stop animations** button to stop an animation sequence at the current time point.
	Rewind animations	Rewinds the animation. (This tool only appears if the file contains animation.) Click the **Rewind animations** button to rewind an animation sequence to the start point (time=0 seconds).
	Print	Prints the illustration file currently open in the Arbortext IsoView window.

Toolbar Button	Tool Tip	Description
		Select the **Print** button to open the **Print** dialog box and print the illustration, or, to print the file directly (without opening the **Print** dialog box). ***Note*** *Changing the view of an illustration in the Arbortext IsoView window will not change the appearance of the printed image. Rather, the appearance of the printed image depends on settings in the **Print** dialog box and, if supported, print preference settings stored in the file.*
	Search	Finds elements and objects the in the graphic based on object data you specify in the **Search** dialog box. Select the **Search** button to open the **Search** dialog box. (See Searching for Elements and Objects in an Illustration on page 26.)
	Home	Returns the graphic to its original view. Select the **Home** button to return the graphic view to its original size and location. ***Note*** *The display of a graphic in the Arbortext IsoView window has no effect on how that graphic appears when it is published. For HTML and web publishing, either the default view of the graphic—or an initial view specified by a view attribute in the file (if supported)—is used when publishing a document.*
	Toggle magnifier	Opens or closes the **Magnifier** window.

Toolbar Button	Tool Tip	Description
		Select the **Toggle magnifier** button; a small **Magnifier** window opens inside the Arbortext IsoView window. (See Using the Magnifier Window on page 28.)
	Toggle global view	Opens or closes the **Global View** window. Select the **Toggle global view** button; a small **Global View** window opens inside the Arbortext IsoView window. (See Using the Global View Window on page 29.)
	Toggle redlining mode	Switches Redlining mode on or off. Select the button; all Redlining toolbar buttons become either selectable or not selectable—whatever state is opposite what they were before you clicked the button. (See Redlining an Illustration on page 29.)
	Draw redlining element	Activates the redlining freehand element drawing mode (only selectable if Redlining mode is active). Select the **Draw redlining element** button; the pointer changes to a draw redlining element pointing finger . With the pointer in the window: 1. Click and drag to draw a redlining element. Release the mouse button to finish the element. 2. Click and drag to start drawing another element. 3. Click any other toolbar button to exit this drawing mode.

Toolbar Button	Tool Tip	Description
	Draw redlining circle	Activates the redlining circle drawing mode (only selectable if Redlining mode is active). Select the **Draw redlining circle** button. With the pointer in the window: 1. Click and drag to draw a redlining circle. Release the mouse button to stop drawing and finish the circle. 2. Click and drag to start drawing another circle. 3. Click any other toolbar button to exit this drawing mode.
	Draw redlining rectangle	Activates the redlining rectangle drawing mode (only selectable if Redlining mode is active). Select the **Draw redlining rectangle** button. With the pointer in the window: 1. Click and drag to draw a redlining rectangle. Release the mouse button to stop drawing and finish the rectangle. 2. Click and drag to start drawing another rectangle. 3. Click any other toolbar button to exit this drawing mode.
	Draw redlining line	Activates the redlining line drawing mode (only selectable if Redlining mode is active). Select the **Draw redlining line** button.

Toolbar Button	Tool Tip	Description
		With the pointer in the window: 1. Click and drag to draw a redlining line. Release the mouse button to stop drawing and finish the line. 2. Click and drag to start drawing another line. 3. Click any other toolbar button to exit this drawing mode.
	Add redlining annotation	Activates the redlining annotation mode (only selectable if Redlining mode is active). (See Adding redlining annotations on page 30.)
	Delete redlining annotation	Activates the redlining delete mode (only selectable if Redlining mode is active). (See Deleting redlining information on page 30.)
	Export redlining	Exports the illustration and the redlining information (only selectable if Redlining mode is active). (See Saving, exporting, and importing redlining information on page 31.)
	Import redlining	Imports redlining information (only selectable if Redlining mode is active). (See Saving, exporting, and importing redlining information on page 31.)
	Preferences	Opens the Arbortext IsoView **Preferences** dialog. (See Arbortext IsoView Preferences on page 33.)
	More tools	Opens the vertical popup toolbar to provide access to toolbar buttons not shown on the horizontal toolbar.

Toolbar Button	Tool Tip	Description
		Toolbar buttons that are set to **in popup menu** in the **Preferences** dialog box always appear on the vertical popup toolbar (whether they are selectable or not).

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Advanced Viewing Tasks

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You can do more than simply view graphics and animations in Arbortext IsoView. Advanced viewing tasks, such as searching and redlining, are also available through the toolbar. This section provides instructions for performing these tasks.

Searching for Elements and Objects in an Illustration

Select the toolbar button to find elements or objects in the illustration based on object data. You will be prompted to specify the search options in a **Search** dialog box:

Note

*The **Search** dialog box in Arbortext IsoView works like the **Select elements** dialog box in Arbortext IsoDraw. (In Arbortext IsoDraw, choose **Edit ▸ Select**.) However, in Arbortext IsoView, elements that have no object info assigned can still be found and highlighted using **Search**.*

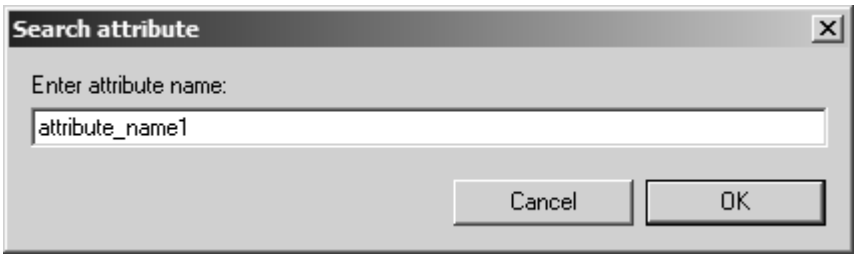
To search for elements and objects using the **Search** dialog box:

1. Select **search for**.
2. Choose the type of object information to search for in the first (left) drop-down list.

   The choices are:

   - **Object info**
   - **Object ID**
   - **Object name**
   - **Object tip**
   - **Object attribute**
   - **Text**
3. In the second drop-down list, select the search criteria for the object information you chose in the first list.

If you chose **Object attribute** in the first list, a separate **Search attribute** dialog box opens. In the **Enter attribute name** box, type the name of the attribute whose value you want to search for, then click **OK**.



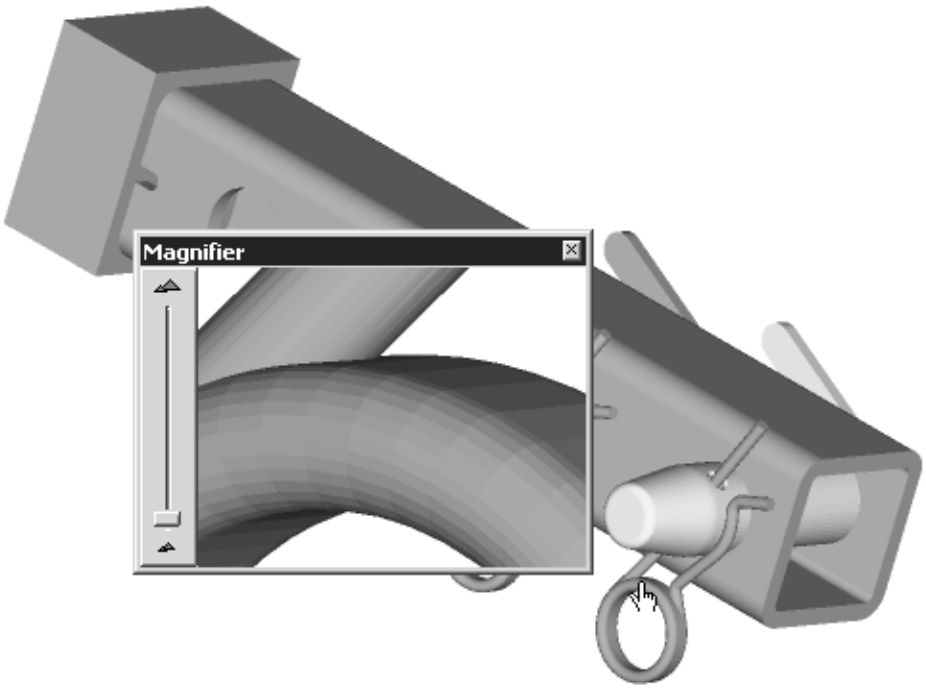
4. If a text box now appears on the right side of the **Search** dialog box, type the value of the object information you want to find, such as a text string or attribute value.
5. Click **OK**. Arbortext IsoView highlights all elements and objects that match the search conditions in the viewing area. It also zooms the view to fit all highlighted objects.

To remove the highlight from all elements and objects found in a previous search:

1. In the **Search** dialog box, select **remove highlight**.
2. Click **OK**. Highlighting is removed from all highlighted elements and objects.

Using the Magnifier Window

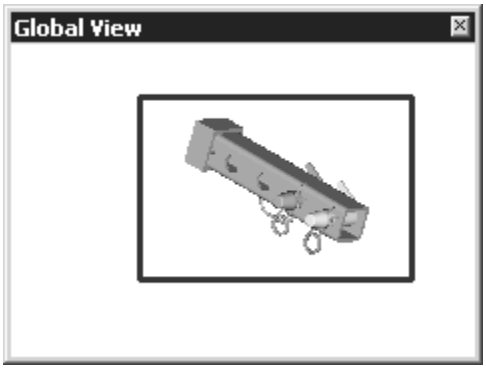
To use the Magnifier window, select the **Toggle magnifier** button; a small **Magnifier** window opens inside the Arbortext IsoView window.



Click on the graphic to see a magnified view of the region surrounding the location you clicked. Move the slider in the **Magnifier** window up or down to increase or decrease the magnification.

Using the Global View Window

Select the **Toggle global view** button; a small **Global View** window opens inside the Arbortext IsoView window. The **Global View** window contains a red rectangle. The sides of the red rectangle correspond to the edges the Arbortext IsoView window.



- Drag the red rectangle in the **Global View** window to change how the graphic is framed in the Arbortext IsoView window.
- Zoom in or out in the Arbortext IsoView window to change the size of the red framing rectangle in the **Global View** window.

Redlining an Illustration

The Redlining mode in Arbortext IsoView enables you to add information to an existing illustration using the redlining tools on the toolbar. To use these redlining tools, first start the redlining mode by selecting the **Redlining** toolbar button. All redlining tools on the toolbar become selectable.

Note

*You can select the **auto hide redlining tools** check box in the **Preferences** dialog box to hide the redlining toolbar buttons until the Redlining mode is activated.*

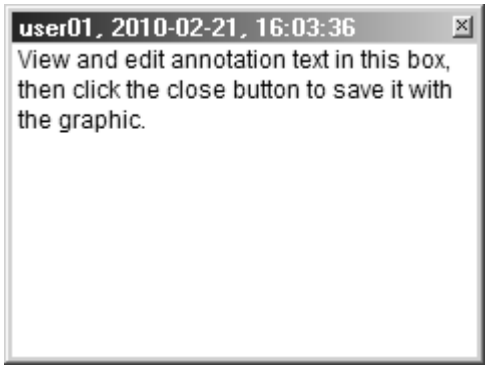
Drawing graphical redlines

In Redlining mode, you can toolbar's redline drawing buttons to draw red lines, rectangles, circles, and curves on the graphic. Once drawn, you can drag redline elements to move them elsewhere on the window, but you cannot change their size or shape.

Adding redlining annotations

If you want to add a text annotation to your graphic in redlining mode, do the following:

1. Select the **Add redlining annotation** button in Redlining mode; the pointer changes to a text pointing finger .
2. Click on the graphic to place the annotation. A small text editing window opens at that location. The editing window title bar shows the user name and date the annotation will be saved with.



3. Add or edit your annotation text in this window, then close it. The annotation changes to an icon at that location in the Arbortext IsoView window.
4. To view or edit the annotation text later, click the annotation icon to open the annotation editing window.

Deleting redlining information

There are two ways to delete redlining information (graphics or annotations):

- With Redlining mode on or off:
  1. Place the pointer over the redlining graphic or annotation icon you want to delete.
  2. When the pointer changes to a pointing finger , click to select the redlining graphic or annotation icon.
  3. Press the DELETE key.
- With Redlining mode on:

1. Select the **Delete redlining annotation** button; the pointer changes to a pointing finger .
2. Place the pointer over the redlining graphic or annotation icon you want to delete.
3. When the pointer changes to an eraser pointing finger , click to delete the redlining graphic or annotation icon.

Saving, exporting, and importing redlining information

When you close the Arbortext IsoView window, any redlining information displayed in it is automatically saved with the graphic file, whether you are in Redlining mode or not. The next time you open that same graphic file in Arbortext IsoView, your redlining information will reappear.

If you want to export redlining information from a graphic file, then import it into a different graphic file, use the **Export redlining** and **Import redlining** toolbar buttons as follows:

1. If you are not in Redlining mode, select the **Toggle redlining mode** button.
2. Select the **Export redlining** button. The **Save As** dialog box opens, prompting you to save the current graphic's redlining information to an ISO file with the same filename as the graphic.
3. Click **Save**. The redlining information is saved to a separate `*_rl.iso` file.

   For example: If you saved the file as *`filename`*`.iso`, the redlining information is saved in a separate *`filename`*`_rl.iso` file.
4. To import the redlining information you just exported to *`filename`*`_rl.iso`, select the **Import redlining** toolbar button. The **Open** dialog box appears.
5. Select the Redlining file, *`filename`*`_rl.iso`, then click **Open**. The redlining information in *`filename`*`_rl.iso` appears in the Arbortext IsoView window.

4

Arbortext IsoView Preferences

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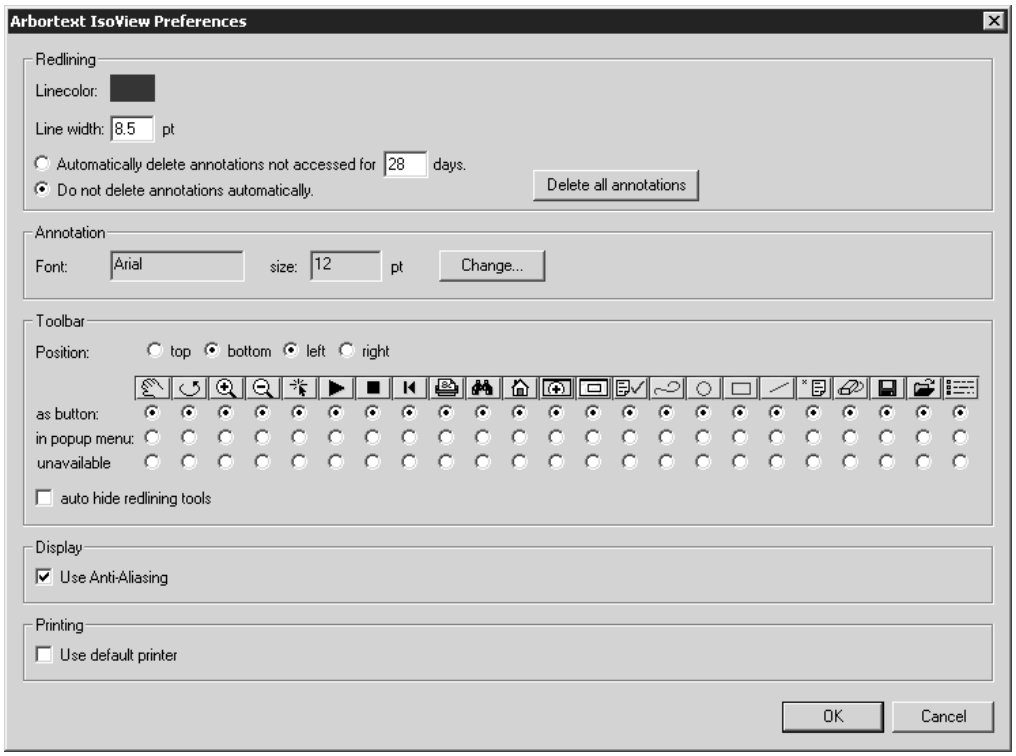
Click the **Preferences** toolbar button in the Arbortext IsoView window to open the Arbortext IsoView **Preferences** dialog box below. (See Arbortext IsoView Toolbar on page 17 to locate the **Preferences** toolbar button.)

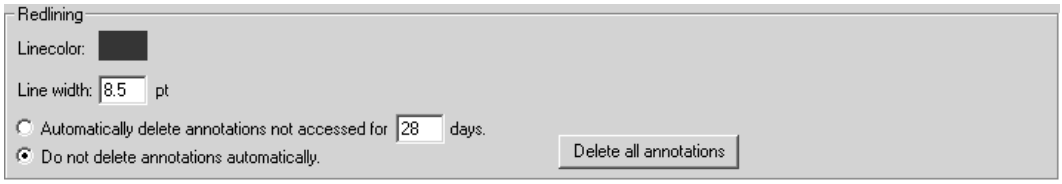


You can view and change the following Arbortext IsoView window options in the **Preferences** dialog box:

- **Redlining** line color and line width. (See Redlining Preferences on page 35.)
- **Annotation** history management and font. (See Annotation Preferences on page 35.)
- **Toolbar** position, arrangement and auto-hide. (See Toolbar Preferences on page 36.)
- **Display** and **Printing** options. (See Display and Printing Preferences on page 36.)

Redlining Preferences

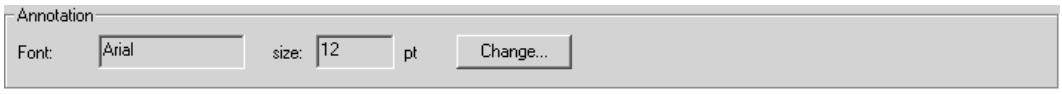
Set redlining preferences under **Redlining** in the Arbortext IsoView **Preferences** dialog box.



Linecolor	Sets the color of the redlining drawing line. Click the colored **Linecolor** box to open the **Color** palette dialog box and select a line color.
Line width	Sets the line width of the redlining drawing line. Type the width (in points) in the **Line width** box.
Automatically delete annotations not accessed for [*number*] days	Select to automatically delete annotations after the number of days typed in the box.
Do not delete annotations automatically	(Default) Select this option to switch off the automatic deletion of annotations.
Delete all annotations	Click the **Delete all annotations** button to manually delete all annotations in the current graphic. Click **Yes** to confirm deletion or **No** to cancel.

Annotation Preferences

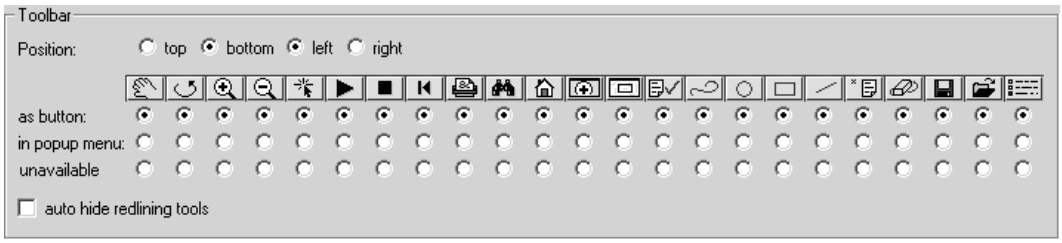
Set annotation preferences under **Annotation** in the Arbortext IsoView **Preferences** dialog box.



Font	Displays the typeface for text in the popup annotation text editor window.
size	Displays the point size for text in the popup annotation text editor window.
Change	Click the **Change** button to open the **Font** dialog box and change the font typeface and point size used for annotation text.

Toolbar Preferences

Set toolbar preferences under **Toolbar** in the Arbortext IsoView **Preferences** dialog box.



Position	Select **top** or **bottom** and **left** or **right** to specify which corner of the window the toolbar will appear in; top-left, top-right, bottom-left, or bottom-right.
Toolbar button settings	You can select one of the following states for each toolbar button:
	as button — (Default) This button appears on the toolbar.
	in popup menu — This button appears in the vertical popup toolbar. (Select the **More tools** button to open this popup toolbar.)
	unavailable — This button does not appear on the toolbar or on the vertical popup toolbar.
auto hide redlining tools	Select check box to hide the redlining toolbar buttons until the Redlining mode is activated. Clear check box to show the redlining toolbar button whether Redlining mode is activated or not.

Display and Printing Preferences

Set display and printing preferences under **Display** and **Printing** in the Arbortext IsoView **Preferences** dialog box.

Use Anti-Aliasing	(Default) Select check box to switch anti-aliasing on. Clear check box to switch anti-aliasing off.
Use default printer	Select check box to print to the default printer without opening the **Print** dialog box when the **Print** toolbar button is clicked. (Default) Clear check box to open the Print dialog box when the **Print** toolbar button is clicked.