

# RxView360

## FEATURES

**RxView360** offers an extensive set of tools to view, print, measure, compare, calibrate, convert, mark-up, annotate, and collaborate, with support for 2D and 3D CAD, BIM, multi-page documents, and touch-screen operation.

**RxView360** allows the user to work with a file in its native format, which includes all of the information from the original application.

Remember, you can always view and download **RxView360 API Specifications**, **RxView360 User Guide**, and other technical information and pricing by visiting our website: [www.rxview360.com/documentation](http://www.rxview360.com/documentation)

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## MORE INFORMATION

If you have a question, we have an answer. Contact us anytime:

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## FEATURES

### BASIC VIEWING

Features include zoom in/out, fit window/ height/width, magnify/zoom selected area, as well as image rotation and background color selection. The content of the viewing canvas can be printed using the browsers print dialog. For 2-D CAD drawings, a list of all vector layers and blocks is provided with the option to turn the display on/off. Support touch screen operation for all other features. PDF export feature converts the active file to a PDF format.

<b>MAGNIFY</b>	activates a window to magnify a selected section of the image
<b>ZOOM IN</b>	enlarges view area one step at a time while maintaining the image's aspect ratio
<b>ZOOM OUT</b>	reduces view area one step at a time while maintaining the image's aspect ratio
<b>FIT WINDOW</b>	zooms the image to the extents of the selected window
<b>FIT HEIGHT</b>	zooms the image to the height of the selected window
<b>FIT WIDTH</b>	zooms the image to the width of the selected window
<b>ZOOM WINDOW</b>	zooms to a selected area of the image that fits in the view window
<b>ROTATE</b>	rotate image clockwise in 90° increments
<b>BACKGROUND</b>	change the background color of the image between black, white and gray
<b>PRINT</b>	print the content of the viewing canvas through the browsers print support
<b>VECTOR LAYERS</b>	for 2-D CAD drawings - show vector layer lists to turn individual layers on/off
<b>VECTOR BLOCKS</b>	for 2-D CAD drawings - show vector block lists to turn individual blocks on/off
<b>PDF EXPORT</b>	converts and exports the active file to a PDF format
<b>PRINTING</b>	print any displayed image/file through the browsers print support

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### MULTI-PAGE FILE VIEWING

Features include next/previous selections to see individual pages of a document, different sheets of a spreadsheet, or multiple views of a vector CAD file. Text select and text search is available for the entire document.

<b>NEXT PAGE</b>	page forward in a multipage file
<b>NEXT SHEET</b>	for spreadsheet file - lists the different sheets
<b>NEXT VIEW</b>	for 2-D CAD drawings - lists the different views
<b>PREVIOUS PAGE</b>	page backward in a multipage file
<b>PREVIOUS SHEET</b>	for spreadsheet file - lists the different sheets
<b>PREVIOUS VIEW</b>	for 2-D CAD drawings - lists the different views
<b>TEXT SELECT</b>	select text on the currently open drawing or document
<b>TEXT SEARCH</b>	search for text in the currently open document

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### 3-D FILE VIEWING

View 3-D files including 3-D block selection with associated property information, 3-D block hide, 3-D block explode into separate blocks from the entire model, walkthrough to navigate in first person mode, create cross sections on the X, Y and Z plane model, and a variable slider to set the transparency of the 3-D model.

<b>BLOCK SELECT</b>	selected 3D blocks with associated information are highlighted in magenta color
<b>BLOCK HIDE</b>	selected 3D block becomes invisible
<b>EXPLODE</b>	explode blocks in a 3D model to separate each block from the model
<b>WALKTHROUGH</b>	navigate the 3D model in first person mode in all 3 dimensions
<b>CROSS SECTION</b>	create cross section on the X, Y and Z plane model
<b>TRANSPARENCY</b>	set the transparency of the 3D model
<b>RESET</b>	unselect all blocks, restore visibility, and set display to the initial rotation and zoom factor

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### BIM FILE VIEWING FOR IFC 3-D MODELS

Allows the use of standard 3-D tools to select 3-D parts in the IFC model and display a list of attributes for a specific part, select 3-D parts directly in the blocks list including a 3-D part information panel with details on the selected part, and navigate to the selected part using the “show” button in the information panel.

<b>3D TOOLS</b>	use 3D tools to select parts in the model and get a list of attributes for a specific part
<b>PART BLOCK LIST</b>	selected 3D part will be highlighted and can toggle visibility for that 3D part
<b>PART INFORMATION</b>	Selected part will bring up a 3D part information panel with details on the selected part
<b>MOVE TO PART</b>	in the Information Panel, navigate to the selected part

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### MARK-UP AND ANNOTATION

Features include the ability to add graphics and text into markup layers directly on top of the displayed file. An extensive set of markup-tools transforms the viewer into a powerful engine for team collaboration to make comments, add notes, highlights, stamps, measurements and more. With preferred user control and approval rules, teams can collaborate in real-time or offline, tracking annotation changes and by editing, merging and consolidating markups and annotations made by all team members.

Markup layers can be toggled on and off, to isolate and view annotations made by different commentators and markups can be selectively hidden for easy / selective viewing. Markup tools with options to set line width, color, and fill style include free pen, free lines, polylines, arrows, shapes, rectangles, rounded rectangles, ovals, polygons, clouds and pre-defined stamps. Transparent color markers and marker rectangles can be used to highlight selected areas of the displayed file. Text markup can be used for short comments made on the face of the displayed file, and a note tool is available for longer markups. Different fonts available for size, and bold, italic or normal font style. Symbols from a symbols library, including a symbol listing and thumbnail view, can be applied as a markup item and placed on the displayed file.

Markups are stored on the server in xml files that are separate from the original file with one markup file, including the user information, for each commentator. User Profiles determine whether any user can display and turn on/off another user's markups and markups can only be edited by the owner of the markup. Markups can be edited and consolidated based on pre-determined user privileges.

<b>COMMENTATOR</b>	one markup file for each commentator that can be toggled/changed with permission
<b>SEPARATE FILES</b>	markups are stored on the server as an xml files separate from the original file with one markup file, including the user information, for each commentator
<b>MARKUP RULES</b>	Markups can only be edited by the owner of the markup User information is stored in the markup file
<b>LAYERS</b>	multiple markup layers are supported and visibility of each layer can be toggled / changed
<b>MARKUP ENTRY</b>	markup entities includes name of the creator/owner of the markup and details about markup
<b>CONSOLIDATE</b>	markups can be individually selected and consolidated into single markup entity

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### MARK-UP AND ANNOTATION

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<b>TOOLS</b>	draw / markup tools include free pen/lines, polylines, arrows, shapes, rectangles, rounded rectangles, ovals, polygons, and clouds in selected color and line width
<b>PROPERTIES</b>	for each markup tool one or more draw options can be set
<b>DELETE</b>	deletes currently selected markup entity
<b>COPY</b>	copy the currently selected markup entity and again in the current image
<b>LINE WIDTH</b>	change line width for markup objects that have a line width property
<b>COLOR SELECTOR</b>	select the color for the markup entity from the color palette
<b>FILL STYLE</b>	select between filled or outlined
<b>HIDE / SHOW</b>	toggles markup display
<b>SAVE</b>	save markups to the server
<b>FONT STYLE</b>	For text markup you set the font face, size, color, and style - bold, italic or normal
<b>ERASER</b>	draw markup entities that hide image information and other markups
<b>TEXT</b>	for shorter comments - create a text box on the active image using selected font
<b>NOTE</b>	for larger comments - store text in selectable "Notes" that do not cover the work area
<b>STAMPS</b>	select from a set of pre-defined stamps as you would use a rubber stamp
<b>HIGHLIGHT</b>	draw a rectangle on a specific section of the image in a transparent color
<b>SYMBOLS</b>	symbols stored selected from a list/thumbnaill view and dragged onto the image
<b>EDITING</b>	markups can only be edited by the owner of the markup

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### MEASUREMENT

Intelligent tools are available to measure anything in a 2-D or 3-D model - Distances, Angles and Areas and Accumulated Distances - for reliable and efficient cost, time, and material estimation. Measure the length of a line, the angle between two lines, or the area enclosed by multiple lines and the results in distance, angle, area, accumulated distance are immediately displayed. Measurement units include metric, imperial, custom, or the internal coordinates inherent in the file format. A specific set of markup objects are used for measurement, including dimension lines, area enclosed by polylines, and measurement path of a polyline indicating the total distance of all line segments.

<b>MEASUREMENT</b>	specific set of markup objects are used for measurement
<b>DIMENSION LINES</b>	double-headed and include the length measurement in the selected units
<b>AREA</b>	draws a measurement area enclosed by polylines using the current color and fill style
<b>PATH</b>	draws a polylines with a label indicating the total distance of all line segments
<b>MEASURE</b>	measure the length of a line/object, the angle between two lines, or area enclosed by multiple lines
<b>CALIBRATE</b>	replace the calculated distance with the known length to set the dimensions of the drawing
<b>UNIT</b>	select between Metric, Imperial, Custom, or System that uses coordinates inherent in the file
<b>DRAWING SCALE</b>	select the drawing scale for measurement sub units

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### CALIBRATION

Calibrate an image by measuring the length of any object on the active file and defining a value for that measurement. The ratio of the measured distance to the defined distance is remembered, and thereafter any distances measured on that file will be multiplied by this scaling factor. Further measurements on the file will use the new scale. The calibration scale is available from a drop down list, or users can select to other pre-defined scales.

<b>DEFINE A VALUE</b>	measure the length of an object on the active file and define a value for that measurement
<b>RATIO</b>	the ratio of the measured distance to the defined distance is remembered
<b>MULTIPLICATION</b>	distances measured on the file will be multiplied by this scaling factor before being presented
<b>CALIBRATION SCALE</b>	separate calibration scale is listed in scale list and activated when the calibration tool is used
<b>PRE-DEFINED SCALE</b>	change to another pre-defined scale by selecting another value from this drop down list

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### FILE COMPARISON

Overlay two or more versions of a drawing in order to quickly and accurately identify the differences. Ability to align the drawings and then set the scale and offset by selecting corresponding points on each drawing. Using different colors for each drawing, you can easily distinguish between the overlaid files. Where the files are the same, the color is black, making it easy to see the differences.

<b>OVERLAY</b>	overlay two or more versions of a drawing to identify and highlight the differences.
<b>ALIGN</b>	ability to align the drawings by selecting to corresponding points on each drawing
<b>SET SCALE</b>	ability to set the drawing scale by selecting to corresponding points on each drawing
<b>SET OFFSET</b>	ability to set the offset by selecting to corresponding points on each drawing

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### FILE INFORMATION DIALOGUE

Information about the active file includes the full name and extension of the file, file size, image width, height, compression, scaling, and the X and Y offsets. For multi-page documents, the number of pages is provided. For spreadsheets, the number of sheets is provided. For CAD files, the number of views, external fonts that are used, and any external reference files (X-Ref) to make sure that the display of the file is complete and accurate.

***The File Information dialog provides information about the active file. Click the Document Information button on the File Ribbon***

<b>FILE TYPE</b>	identifies that type of file
<b>FILE NAME</b>	identifies the full name and extension of the file
<b>SIZE</b>	the file's size
<b>IMAGE WIDTH</b>	the width of the image in the units defined for the file - pixels or drawing units. the value and units are not affected by calibration, filter settings, or by the zoom factor
<b>IMAGE HEIGHT</b>	the height of the image in the units defined for the file
<b>IMAGE DEPTH</b>	for 3D images, the depth of the image in the units defined for the file
<b>COMPRESSION</b>	the type of file compression used
<b>DPI</b>	the resolution of the file in dots per inch
<b>SCALING</b>	internal factor for relating the screen coordinate system with the file's internal information
<b>OFFSET</b>	Information retrieved from file header in the X and Y axis
<b>VIEWS</b>	the number of views in vector CAD file
<b>PAGES</b>	the number of in multipage documents and PowerPoint presentations
<b>SHEETS</b>	the number of in spreadsheets
<b>FONT</b>	listing of external fonts used in a CAD file will be identified missing fonts not present on the server will be noted in the list
<b>X-REF</b>	listing of external reference files used in a CAD file will be identified missing external reference file not present on the server will be noted in the list

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### NAVIGATION

In addition to drop-down menus, side panels located to the left of the workspace offer enhanced navigation for multi-page documents, markup listing, users and layers, vector file layers and blocks, 3-D model blocks, symbol libraries and options for markup consolidation.

<b>TOUCH SCREEN</b>	multi touch zoom in and out, pan, 3D orbit mode, 3D rotation, markup selection and markup tool selection activated by single touch. Double tap functions as double-click left mouse button
<b>PAGES LIST</b>	multipage drawings and documents can be navigated using the pages list that includes a thumbnail view, markups, and page indicator. Individual pages and can be selected for display in the main workspace window
<b>NEXT/PREVIOUS PAGE</b>	page forward or backward in a multipage file, look through different sheets in a spreadsheet file, and look at different views in a vector CAD file.
<b>TEXT SELECT / SEARCH</b>	select text on the displayed drawing or document and open a text search panel to search for text in the currently open document
<b>MARKUP LIST</b>	annotations on the file will be listed in the Markup List panel. Selection of the markup entry in the list will display markup details as well as select the markup in the workspace display. Each markup object includes the name of the creator/owner of the markup object.
<b>MARKUP CONSOLIDATION</b>	if the current user has consolidation privileges, using special markup list will allow the consolidation of existing markups
<b>USERS AND LAYERS</b>	a list of markup layers and users associated with the displayed markup objects will allow the user to selectively turn on/off each user comments and each markup layer
<b>MARKUP USERS</b>	a list of users with a check box for each to turn markups for the selected user on/off. User profile determines right to turn on/off other user's markups
<b>MARKUP LAYERS</b>	a list of markup layers with a check box for each to turn layers on/off. User profile determines right to turn on/off markup layers

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## NAVIGATION

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<b>3D PARTS</b>	active blocks in a 3D model will be listed in the 3D panel. Each block can be selected or toggled on/off
<b>VECTOR LAYERS</b>	list of layers in a 2-D CAD drawing will appear when expanding the panel. Layers can be individually toggled on/off
<b>VECTOR</b>	list of blocks used in a 2-D CAD drawing will appear when expanding the panel. Blocks can be individually toggled on/off
<b>SYMBOLS</b>	If symbol libraries are available on the server, these symbols can be accessed from a listing that includes a thumbnail view for each symbol. To add a symbol from the library to the drawing, select the symbol in the list, drag it into the drawing and drop the symbol in desired location