

# Quick Start: QPC XSCAN32 Annotations

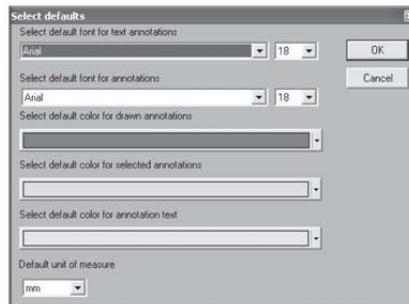
## Annotations

### Hide / Show Annotations

Selecting the Hide / Show Annotations button will toggle the visibility of the Annotations tool pallet.

### Annotation Defaults

Used to change the default font name, font size and colors. Select the Defaults  button on the annotations toolbar.




### Embed Annotations in Image

Clicking on the Embed Annotations in Image button will save all the annotations into the image, enabling the user to DICOM send images with annotations. If the annotations are not embedded, they will not be sent with the image when doing a DICOM send.

### Line Annotations



Creates a straight line on the image.

1. Select the **Line** button  from the annotations toolbar.
2. Left mouse click on the area of the image to set the first endpoint.
3. Move the mouse to where the second endpoint will be.
4. Left mouse click on the are of the image to set the second endpoint.

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## Extended Line Annotation

Creates a straight line that passes through the image.

1. Select the **Extended Line**  from the annotations toolbar.
2. Left mouse click on the area of the image to set the first endpoint.  
 **Note:** The line will be extended through the entire image.
3. Move the mouse to where the second endpoint will be.
4. Left mouse click on the area of the image to set the second endpoint.


## Arrow Annotation

Creates an arrow on the image, which points to a region of interest.

1. Select the **Arrow**  button from the annotations toolbar.
2. Left mouse click on the area of the image to set the end of the arrow.
3. Move the mouse to where the arrow should point.
4. Left mouse click to set the second endpoint of the arrow head.

## Cross Hair Annotation


Creates a cross hair on the image.

1. Select the **Cross Hair**  button from the annotations toolbar.
2. Left mouse click on the area of the image to set the start point of the cross hair.
3. Move the mouse to where the second endpoint will be.
4. Left mouse click on the area of the image to set the cross hair.

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## Free Hand Annotation

Allows user to draw freehand on the image.

1. Select the **Free Hand**  button from the annotations toolbar.
2. Hold down the left mouse button on the part of the image that is desired to start drawing then drag the mouse.
3. Continue to hold the left mouse button and draw as necessary .
4. Release the left mouse button to end the freehand drawing.


## Ellipse Annotation

Creates an unfilled ellipse on the image. This feature is used to show a region of interest on the image.

1. Select the **Ellipse**  button from the annotations toolbar.
2. Left mouse click on the area of the image to start the ellipse.
3. Move the mouse to where the ellipse will end.
4. Left mouse click to set the ellipse in place.

## Rectangle Annotation


Creates an unfilled box on the image. Used to show a region of interest on the image.

1. Select the **Box**  button from the annotations toolbar.
2. Left mouse click on the area of the image to start the box.
3. Move the mouse to where the box will end.
4. Left mouse click to set the box in place.

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## Text Annotation

Creates a text annotation on the image.

1. Select the **Text**  button from the annotations toolbar.
2. Left mouse click on the area of the image to set the upper left corner of the text box.
3. Move the mouse to where the text box will end.
4. Left mouse click to set the size of the text box.
5. The text box will become white with a flashing cursor. Type text.
6. Click anywhere on the image to end the text box.

## Measurement Annotation

Used to measure the distance of a straight line on the image. This can be in inches, cm, mm and pixels.

1. Select the **Measurement**  button from the annotations toolbar.
2. Left mouse click on the image to set the first endpoint of the measurement.
3. Move the mouse to where the endpoint of the measurement will be.
4. Left mouse click to set the endpoint of the measurement. The measurement will appear below the line.
5. To place the text in this default position left mouse click on the same point again. To move the text out of the way, move the mouse to the desired location and left mouse click to set the placement of the text.


## Calibration

The calibration tool compensates for image magnification. It will allow the user to take an object of known length (a coin, ruler, etc that is not susceptible to measurement distortion), draw a linear measurement, and assign a length value such that measurements made with other tools will be accurate in the unit of measurement.

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## Angle Measurement Annotation

Used to draw an angle on the image.

1. Select the **Angle Measurement**  button on the annotations toolbar.
2. Left mouse click on the image to set the vertex (center point) of the angle.
3. Move the mouse to where the endpoint of the first vector will be.
4. Left mouse click to set the endpoint of the first vector.
5. Move the mouse to where the endpoint of the second vector will be.
6. Left mouse click to set the endpoint of the second vector. The angle measurement will appear.
7. To place the angle text in this default position left mouse click on the same point again. To move the angle text out of the way or to change angles, move the mouse to the desired location and left mouse click to set the placement.

## Cobb Angle Annotation


Used to draw a cobb angle on the image.

1. Select the **Cobb Angle**  button on the annotations toolbar.
2. Left mouse click on the area of the image to set the first endpoint of the first line.
3. Move the mouse to where the second endpoint of the first line will be.
4. Left mouse click on the area of the image to set the second endpoint of the first line.
5. Left mouse click on the area of the image to set the first endpoint of the second line.
6. Move the mouse to where the second endpoint of the second line will be.
7. Left mouse click on the area of the image to set the second endpoint of the second line. The angle measurement will appear.
8. To place the angle text in this default position left mouse click on the same point again. To move the angle text out of the way, move the mouse to the desired location and left mouse click to set the placement.

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## Heart to Lung Ratio Annotation

Used to find the heart to lung ratio.

1. Select the **Heart to Lung Ratio**  button on the annotations toolbar.
2. Left mouse click on the area of the image to set the first endpoint of the first line.
3. Move the mouse to where the second endpoint of the first line will be.
4. Left mouse click on the area of the image to set the second endpoint of the first line.
5. Left mouse click on the area of the image to set the first endpoint of the second line.
6. Move the mouse to where the second endpoint of the second line will be.
7. Left mouse click on the area of the image to set the second endpoint of the second line. The ratio measurement will appear.


## Center Line Annotation

Used to find the center line of four points.

1. Select the **Center Line**  button on the annotations toolbar.
2. Left mouse click on the area of the image to set the first point.
3. Left mouse click on the area of the image to set the second point
4. Left mouse click on the area of the image to set the third point.
5. Left mouse click on the area of the image to set the fourth point. The center line of these four points will be drawn on the image.

## Center Point


Used to find the center between two user settable points.

1. Select the **Center Point**  button on the annotations toolbar.
2. Left mouse click on an area to set the first point (it will appear as an X).
3. Left mouse click on an area to set the second point (it will appear as an X).
4. A third, large X will appear in the center of the two other Xs.

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## Probe


Used to view the X & Y pixel coordinates and the grayscale value for the point.

1. Select the **Probe**  button on the annotations toolbar.
2. Move the mouse to the desired point.
3. Left mouse click and hold, and the X & Y coordinates and gray scale value will be displayed.

 **Note:** While holding down the left mouse button, the user can drag the mouse pointer and the values will change.

## Scale

Used to indicate measures (like increments on a ruler) on the top, bottom, or sides of the image.

1. Select the **Scale**  button from the annotations toolbar.
2. Set the desired parameters in the dialog box.
3. Click **Ok**, and the measures will appear on the image.

## Templates

Used to load and draw custom templates.

Select the **Templates**  button on the annotations toolbar.

## Measurements Units

Used to toggle between the current measurement units.    

## Delete All Annotations

Used to permanently remove all annotations from the currently selected images.

Select the **Delete All Annotations**  button.

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## Deleting Annotations Individually


1. Select the annotation.
2. Right mouse click on the annotation.
3. Select **Delete** from the pop-up menu.



## Selecting Annotations


1. Move the mouse over the annotation. The mouse pointer will become a pointing hand.
2. Left mouse click on the annotation to select it. The annotation will become a dotted line with several handles.

## Moving Annotations

1. Select the annotation.
2. Move the mouse over the annotation onto any part of it except the handles (i.e. small boxes). The icon will change to the moving  annotations icon.
3. Left mouse click on the annotations and drag it anywhere on the image.




## Resizing Annotations

1. Select the annotation.
2. Move the mouse over the annotation (onto any of the handles). The icon will change to the resizing  annotations icon.

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3. Left mouse click on the annotation handle and drag it anywhere on the image.



 **Note:** For measurement annotations the size/angle will change accordingly. One of the handles provided for measurement annotations will also allow the user to reposition the text.