

Memo

Specifications of XML file

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X

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Specifications of the file ProbeCalibConfigs.xml in Custus X

The file ProbeCalibConfigs.xml in CustusX describes the ultrasound image grabbed by CustusX for various combinations of video grabbers, ultrasound scanners, probes and configurations. The fields included in the file are described in Table 1 and Figure 1.

Table 1 Description of the tags in the file ProbeCalibConfigs.xml in CustusX.

Tag	Description
Version	Version number of the file.
USScanner	Description of configurations for a specific ultrasound scanner.
Name	The name of the ultrasound scanner.
USProbe	Description of configurations for a specific ultrasound probe.
Name	The name of the USProbe.
Type	Type of probe.
DefaultRTSource	Default video grabber/real-time source.
Notes	Description of the correct settings on the scanner for the given probe and other important, probe-specific usage information.
RTSource	Description of configurations for a specific video grabber/real-time source.
Name	Name of the video grabber/real-time source.
DefaultConfig	ID of the default configuration.
ImageSize	Description of the size of the grabbed ultrasound image.
Width	Width in pixels of the grabbed ultrasound image.
Height	Height in pixels of the grabbed ultrasound image.
HorizontalOffset	Horizontal offset applied by the video grabber. This number is used by the driver software of the video grabber.
Config	Description of the settings for a specific configuration on the ultrasound scanner.
ID	Unique ID for the given configuration.
Name	Descriptive name of the given configuration.
WidthDeg	Opening angle in degrees of the displayed ultrasound sector (see Figure 1). For linear probes the angle is set to 0.
Depth	Distance in pixels from the start to the bottom of the ultrasound sector (see Figure 1).
Offset	Distance in pixels from the origin to the start of the ultrasound sector (see Figure 1).
Origin	Description of the origin (apex) of the ultrasound sector.
Col	Distance in pixels from the left edge of the grabbed image to the origin of the ultrasound sector.
Row	Distance in pixels from the top edge of the grabbed image to the origin of the ultrasound sector.
NCorners	Number of corners of the ultrasound sector.
Corner	Description of one of the corners of the ultrasound sector.
Col	Distance in pixels from the left edge of the grabbed image to the corner.
Row	Distance in pixels from the top edge of the grabbed image to the corner.
CroppingEdges	Description of the edges of the cropping box. The cropping box encloses the part of the ultrasound sector which contains no unwanted artefacts such as distance scales, text, etc.
Left	Distance in pixels from the left edge of the grabbed image to the left edge of the cropping box.
Right	Distance in pixels from the left edge of the grabbed image to the right edge of the cropping box.
Top	Distance in pixels from the top edge of the grabbed image to the top edge of the cropping box.
Bottom	Distance in pixels from the top edge of the grabbed image to the bottom edge of the cropping box.
PixelSize	Size of the area imaged by one pixel in the ultrasound image.
Width	Width in millimetres of the pixels in the ultrasound image.
Height	Height in millimetres of the pixels in the ultrasound image.

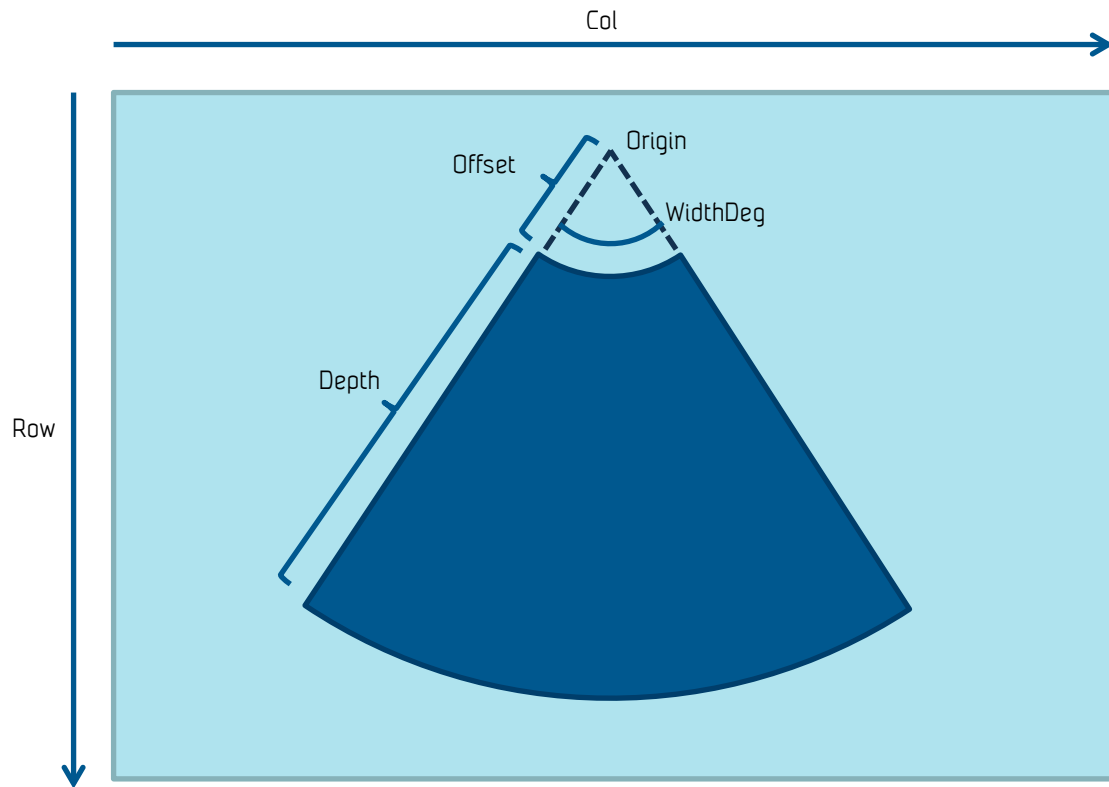


Figure 1 Illustrasjon av grabbet ultralydbilde.