

## Applications

Name	Ultrasound Measurements		
Category (IP/ Reusable)	Knowledge	Component type (HW/SW/product etc)	Software
HW Platform	Intel	SW Platform /OS	Windows XP
Applications / applicable products	Medical diagnostic imaging equipment		
Market/ industries applicable	Healthcare		
Product Description	Aids the radiologist to perform measurements on the scanned ultrasound images		
Technical specifications	VC++, XML		
Features /benefits	Provides the radiologist with various calipers (tools) to perform measurements on the scanned images. Measurements can be done on the images in different imaging modes like 2D, M-mode, Doppler mode and CDI mode. Basic measurements like Distance, Area, and Volume are common for all exam types. Application measurements specific to exam type is also provided like LV measurement, Aortic valve measurement etc for Cardiac exams, Pancreas Head, Pancreas Body etc for Abdomen exam. The measurement items and values are displayed on the monitor in a tabular form.		
Other relevant details	Developed for integrating with Diagnostic Equipments		
Readiness	Available		

Name	3D Volume Measurement		
Category (IP/ Reusable)	Knowledge	Component type (HW/SW/product etc)	Software
HW Platform	Intel, NVIDIA	SW Platform /OS	Windows XP
Applications / applicable products	Medical diagnostic imaging equipment		
Market/ industries applicable	Healthcare		
Product Description	To generate 3D volume from curves plotted on 2D planes of ultrasound image and displays the measured value.		
Technical specifications	OpenGL, Cg		
Features /benefits	The curves are plotted in the image planes using PieceWiseBezier. This is a curve which passes through all the user defined points and its smoothness is scalable. Average Rotation and Disc Summation methods are used for volume generation. Fragment shader (GPU) is used for improving the quality of rendering and better lighting and Geometry shader (GPU) is used for surface division for high speed rendering. This increases the real time performance even when the volume is complex.		
Other relevant details	Developed for integrating with Diagnostic Equipments		
Readiness	Available		



<b>Name</b>	<b>Overlays - Annotation and Bodymark</b>		
<b>Category (IP/ Reusable)</b>	Knowledge	<b>Component type (HW/SW/product etc)</b>	Software
<b>HW Platform</b>	Intel	<b>SW Platform /OS</b>	Windows XP
<b>Applications / applicable products</b>	Medical diagnostic imaging equipment		
<b>Market/ industries applicable</b>	Healthcare		
<b>Product Description</b>	To add text and bitmap images on scanned ultrasound images		
<b>Technical specifications</b>	VC++		
<b>Features /benefits</b>	Using Annotation feature, the radiologist can add comments on the scanned image. Texts can be either manually entered or selected from a preconfigured list. Using Bodymark feature, the radiologist can add small bitmap images of the body part being scanned. The probe position can also be marked on the image. The scanned image can be saved with the annotation and bodymarks and can be used for future reference.		
<b>Other relevant details</b>	Developed for integrating with Diagnostic Equipments		
<b>Readiness</b>	Available		

<b>Name</b>	<b>Localizer</b>		
<b>Category (IP/ Reusable)</b>	IP/ Knowledge	<b>Component type (HW/SW/product etc)</b>	Software
<b>HW Platform</b>	Intel	<b>SW Platform /OS</b>	Windows XP/VISTA /WINDOWS7
<b>Applications / applicable products</b>	Any Windows platform Application		
<b>Market/ industries applicable</b>	Any Domain		
<b>Product Description</b>	Localizer Application will pull all strings from any application and show in a custom screen for translation. After translation, Translated strings can be inserted back to the application for desired local language version. English version application should address Windows Platform Internationalizing guidelines for 100 % results.		
<b>Technical specifications</b>	C++		
<b>Features /benefits</b>			
<b>Other relevant details</b>	Developed for integrating with Diagnostic Equipments		
<b>Readiness</b>	Available		



<b>Name</b>	<b>Teaching file creator</b>		
<b>Category (IP/ Reusable)</b>	Knowledge	<b>Component type (HW/SW/product etc)</b>	Software
<b>HW Platform</b>	Intel	<b>SW Platform /OS</b>	Windows XP/Windows 2000
<b>Applications / applicable products</b>	Medical diagnostic imaging equipment.		
<b>Market/ industries applicable</b>	Healthcare		
<b>Product Description</b>	<p>This application works on the images/clips created by the Ultrasound diagnostic imaging equipment. All clinical data stored in Ultrasound diagnostic imaging equipment contains patient information and acquisition date for easy traceability. To protect the confidentiality of patient and to comply with the law, it is necessary to hide the patient information, if the clinical data are shown in public. Teaching file creator removes the patient information from the clinical images and clips.</p>		
<b>Technical specifications</b>	Direct X, VC++.		
<b>Features /benefits</b>	<ul style="list-style-type: none"> <li>• Masking Clinical Data.</li> <li>• Selecting the regions in the clip/image</li> <li>• Masking the selected Regions of Clips /images</li> <li>• Saving the masking coordinates as a preset file</li> <li>• Can load the preset from the preset file to the image area</li> <li>• Adding embedded information to AVI/JPEG file</li> <li>• Merging two or three Clips</li> <li>• Saving the Snapshot from clips as a JPEG file</li> <li>• Slide Show of the images present in a folder</li> <li>• Playing the selected clip</li> <li>• Selecting image / Clip</li> <li>• Implant User Text</li> <li>• Protecting customer Logo</li> <li>• Renaming of the file or folder in the file browser</li> <li>• Conversion of Video Clips</li> <li>• Support for changing Video and Image Target Resolution and Video Image and Target Quality</li> <li>• Support for changing the Root Directory in the file browser</li> <li>• Indicate the Start Time , End Time , Total Time and Current Time of the clip in the Image display window.</li> </ul>		
<b>Other relevant details</b>			
<b>Readiness</b>	Available		