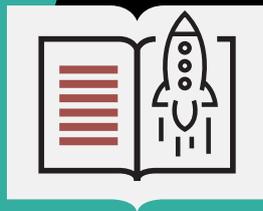


FORSINA

Forsina Dicom Converter VR

Quick Manual



About Forsina

“FORSINA” **the biggest medical library in the world**, aims to assist universities, students, healthcare professionals, and even patients in receive quality and accurate medical information, and it provides different tools to easily view, study, and understand human anatomy for male and female using 3D, Virtual Reality, and real CT scan models.

We have the biggest medically accurate content written developed by our anatomy experts and doctors, offering more than 1000 histology images, 50000 landmarks, 20000 traceable blood vessel and nerve paths, 500000 CT images and over 5 million medical words.

Forsina Products

Forsina has created software that mainly focus on the anatomy of the human body and histology in addition to radiology and Dicom convertor for the purpose of learning and harnessing the best tools to facilitate and empower the learning and researching process

Our Products



Forsina Anatomy 3D

Explore the female and male human body comprehensive structure in a stunning 3D environment covering every anatomical structure with full medical information for each one

Forsina Anatomy VR

Explore the female and male human body comprehensive structure in an immersive Virtual reality environment covering every anatomical structure with full medical information for each one



Forsina Dicom Converter 3D

Convert your DICOM files into a 3D module to be used in your desktop or mobile, this will allow you to explore your DICOM images in 3D environment

Forsina Dicom Converter VR

Convert your DICOM files into a Virtual Reality module to be used using your VR tool kit, this will allow you to explore your DICOM images in one of a kind experience you have never had before



Forsina Radiology 3D

Learn and understand how to read CT medical images, control the body density and frontal planes (axial, Sagittal, coronal) in a stunning 3D module created from over 120000 CT images for your studies

Forsina Radiology VR

Learn and understand how to read CT medical images, control the body density and frontal planes (axial, Sagittal, coronal) in an immersive VR module created from over 1 Million CT images for your studies



Quick Guide



Figure 1
start screen

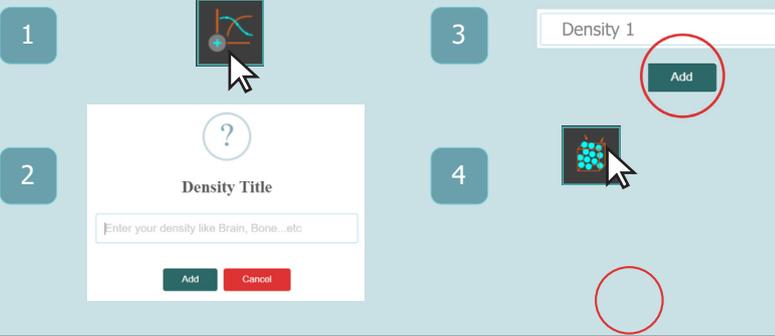
Button	Function
Open file	Open ".vti" file in 3D environment
Convert Dicom	Convert Dicom files to ".vti" file
Convert CTA	Convert angiographic images into Dicom
Leave Forsina	Close the application



Figure 2
Dicom menu

Num.	Icon	Name	Function										
1		Density Presets	Display several preset densities for the user to choose from to view the model in the desired density.										
2		Volume Control Tool	Reveal sliding bars that can be used to manually choose a density according to the user's needs. The shadow and color levels can also be manipulated using this tool. <div style="text-align: right;"> </div>										
3	 <div style="border: 1px solid black; padding: 5px; margin-top: 5px;">Slider Crop</div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;">Cube Crop</div>	Cut Tool	<p>Cut the model in three different sectional planes (X, Y, Z). The cut tool consists of two separate cropping tools:</p> <ol style="list-style-type: none"> Slider Crop: Reveal three sliders that you can move to cut the model in the desired plane. <div style="text-align: center; margin: 10px 0;"> </div> Cube Crop: Reveal a dotted cube around the model. Each dot on the cube can be held and moved to cut the model as desired. <div style="text-align: center; margin: 10px 0;"> </div> <p>- When selecting cube crop a small menu will appears</p> <div style="display: flex; justify-content: space-between;"> <div style="background-color: #333; color: white; padding: 5px;"> <table border="0"> <tr><td>Pickable</td><td><input checked="" type="checkbox"/></td></tr> <tr><td>Visibility</td><td><input type="checkbox"/></td></tr> <tr><td>Face Handles</td><td><input checked="" type="checkbox"/></td></tr> <tr><td>Edge Handles</td><td><input checked="" type="checkbox"/></td></tr> <tr><td>Corner Handles</td><td><input checked="" type="checkbox"/></td></tr> </table> </div> <div> <p><u>Pickable</u>: if checked you can pick any dot to control it</p> <p><u>Visibility</u>: show/hide the cube outline</p> <p><u>Face Handles</u>: show/hide dots in the middle of cube</p> <p><u>Edge Handles</u>: show/hide dots in the edges of cube</p> <p><u>Corner Handles</u>: show/hide dots in the corners of cube</p> </div> </div>	Pickable	<input checked="" type="checkbox"/>	Visibility	<input type="checkbox"/>	Face Handles	<input checked="" type="checkbox"/>	Edge Handles	<input checked="" type="checkbox"/>	Corner Handles	<input checked="" type="checkbox"/>
Pickable	<input checked="" type="checkbox"/>												
Visibility	<input type="checkbox"/>												
Face Handles	<input checked="" type="checkbox"/>												
Edge Handles	<input checked="" type="checkbox"/>												
Corner Handles	<input checked="" type="checkbox"/>												

! Cropping the model can be done by simply moving the slider in the direction you want to crop.

Num.	Icon	Name	Function
4		CT Planes	Show 2D CT scan images of the model
		Color Window	manipulate the color of the image or its background 
<p>! Activating the Slider Crop tool while the CT plans tools is active the action on the crop tool will be reflected on the 2D CT image in all 3 axes</p>			
5		Screenshot	Take a screenshot of the current view.
6		Save Current Density	Save the current density the user has set. This tool is intended to save time when you need to close the application and work on it later. 
7		Reset Camera	Reset the camera back to its original position.
8		Reset Volume	Reset the density, color, and position of the model to its original setting when the image was loaded.
9		VR mode	Switch on/off VR mode
10		New Volume	Open a new '.vti' file.



↑ Shift



To move the model, press and hold the shift and the left mouse buttons.

Ctrl



To roll the model, press and hold the Ctrl and the left mouse buttons.



To rotate the model, press and hold the left mouse while rotating

Guide to Controllers in VR

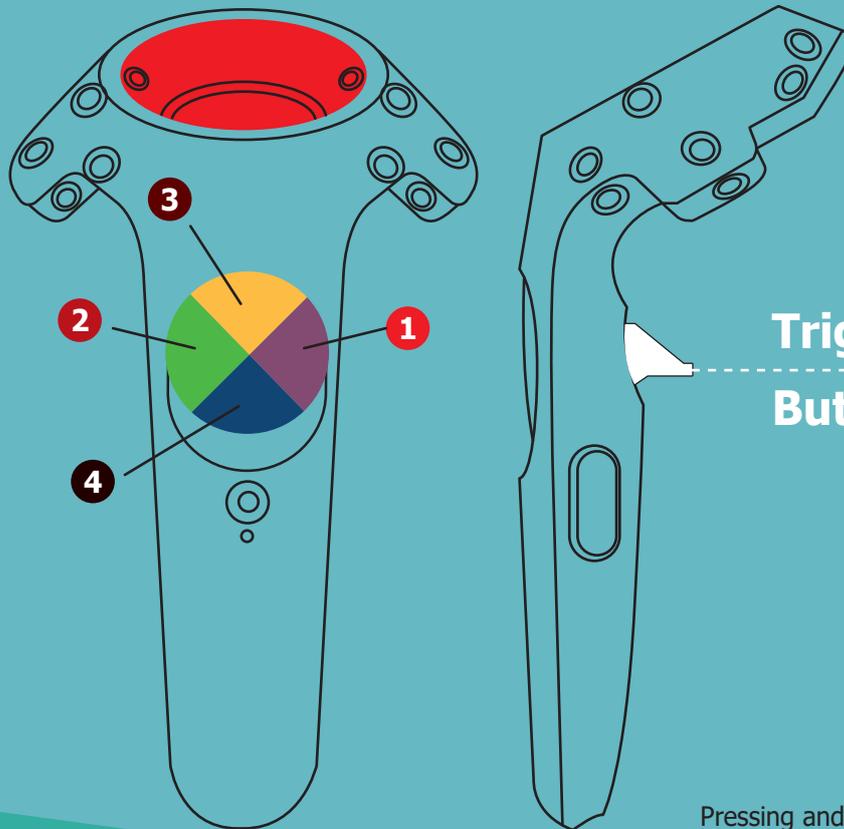
1 Trackpad Right button:
This button is used to zoom in.

2 Trackpad Left button:
This button is used to zoom out.

3 Trackpad Up button:
This button is used to increase the density of the model.

4 Trackpad Down button:
This button is used to decrease the density of the model.

Used to move the model to the right, left, up, down, toward the user, or away from the user. The model moves in the opposite direction of where the controller is directed. For example, pointing the controller up and pressing the trigger will move the model down.



Trigger Button

1 Trackpad Right button
This button is used to cut the model in the Z axis from right to left.

2 Trackpad Left button
This button is used to cut the model in the Y axis from top to bottom.

3 Trackpad Down button
This button is used to cut the model in the X axis from back to front.

Pressing and holding the trigger button will reverse the action of the trackpad button. For example, pressing the trackpad right button while holding the trigger button will reset the cut parts from the same axis.

