4DView

Quick Guide

Voluson™

A Healthier Future for Women

gehealthcare.com

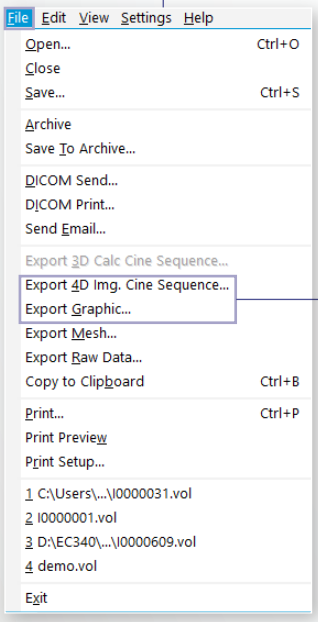
Getting Started with 4DView

4DView provides off-line volume manipulation of Voluson volumes allowing for further analysis, research activities, training and more. Here is an overview of key settings and functions to help you get started with 4DView.

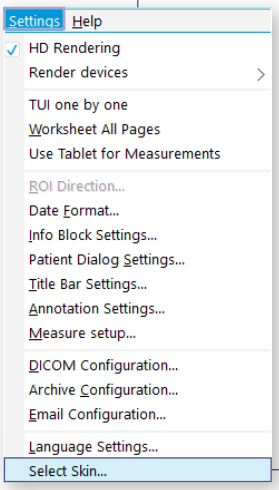
Open .vol **files** that have been saved from the system or 4DView

Open and/or **Import** .4dv **folders or files** that have been exported from the Voluson Archive in Voluson Format Uncompressed or Voluson Format Compressed

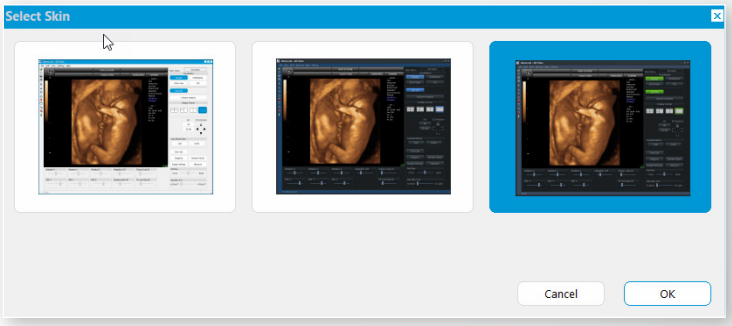
Save newly manipulated volumes back into the 4DView Archive



Export images in **PC formats**

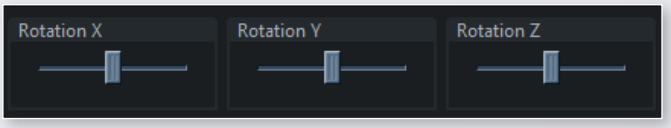
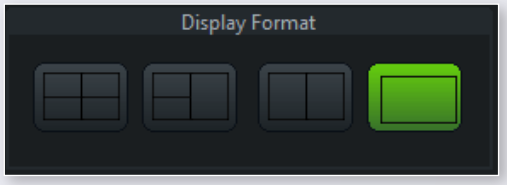
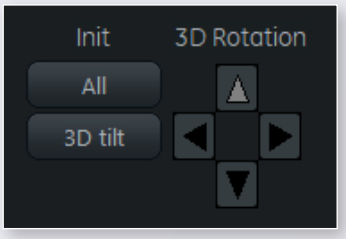
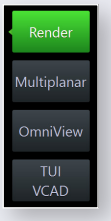
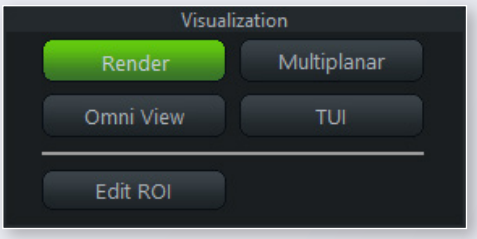


Even change appearance to look like your Voluson!



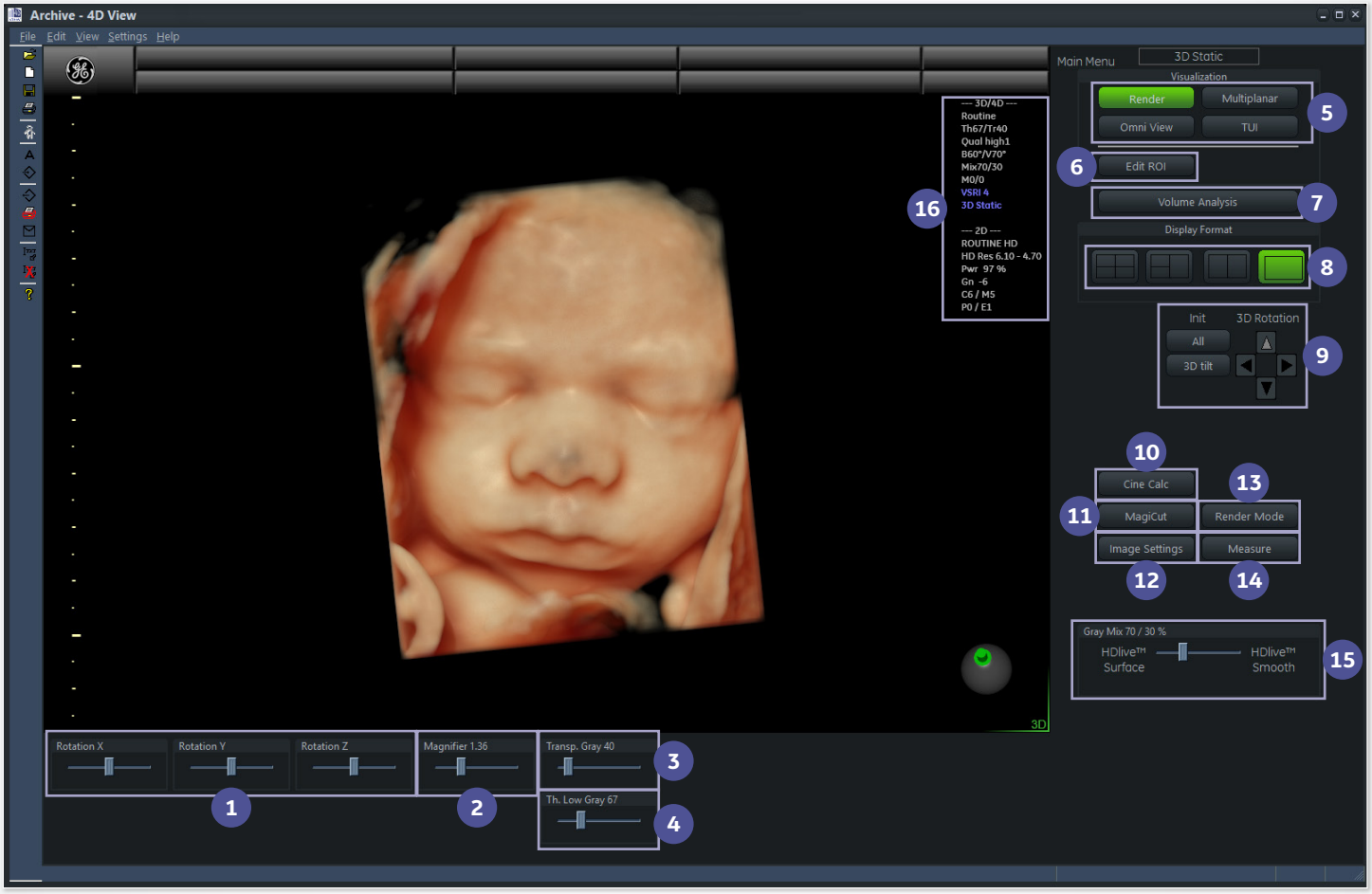
Getting Started with 4DView

4DView is meant to be an extension of your Voluson so most controls are the same as the system. Below are comparative settings seen on each:

	Voluson	4DView
Screen Display		
3D/4D Rotation Controls		
Display Format		
3D Orientation and Initial		
Visualization Modes		

4DView Main Menu

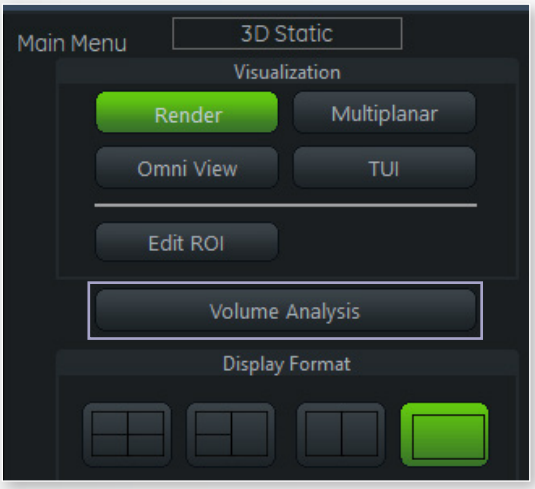
Overview of the Main Menu items:



1. Rotational Sliders X,Y,Z
2. Magnifier
3. Transparency Gray
4. Threshold Low Gray
5. Visualization Tools
6. Edit/Fix ROI
7. Volume Analysis
8. Display Format
9. Image Rotational Tools
10. Cine Calc
11. MagiCut
12. Image Settings
13. Render Mode
14. Measure
15. Render Mix
16. Info Block

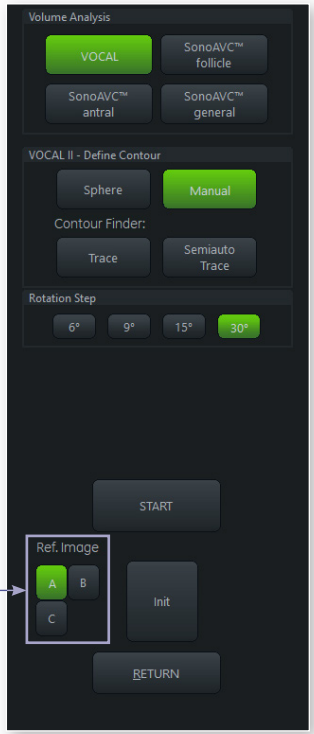
4DView Volume Analysis

Overview of Volume Analysis menu details:

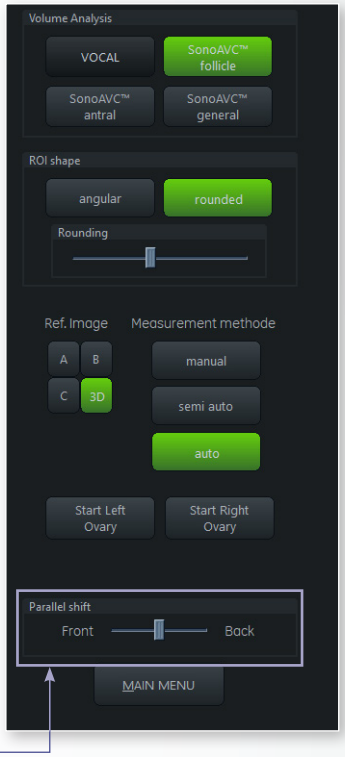


- If applicable, certain items are copied into these menus to prevent the need to revert back to the main menu

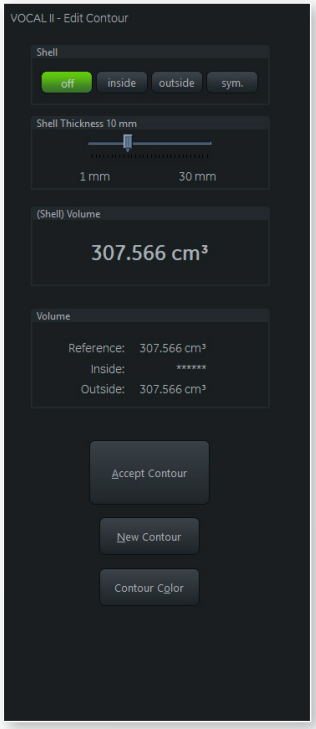
VOCAL

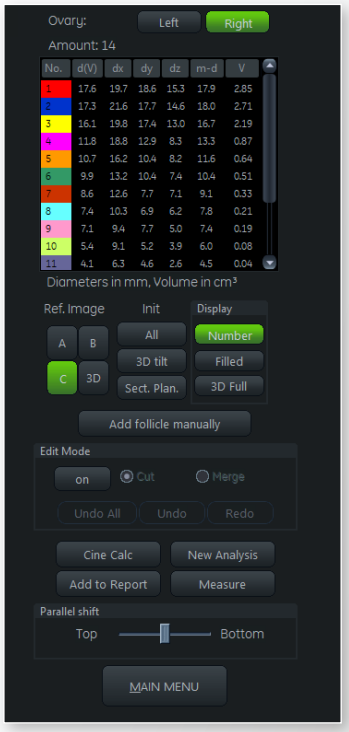


SonoAVC Suite



- Menus after completing Analysis

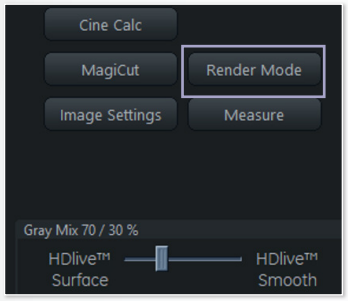


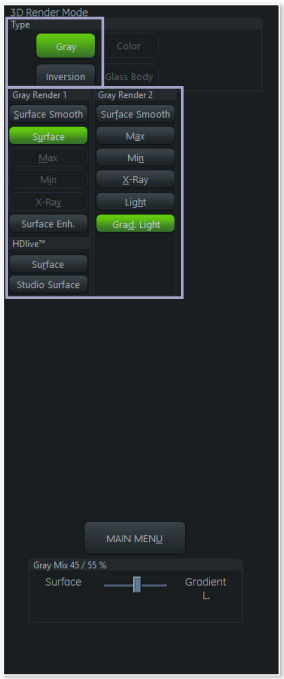


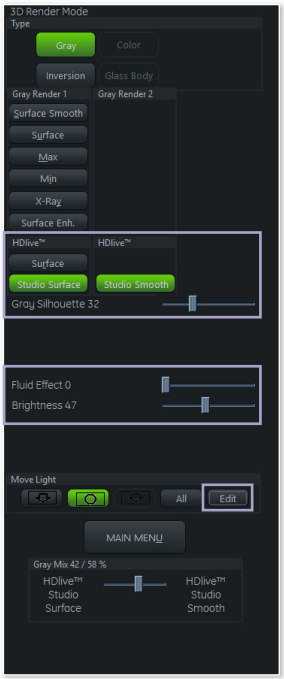
Note: Options available based on Voluson purchased options

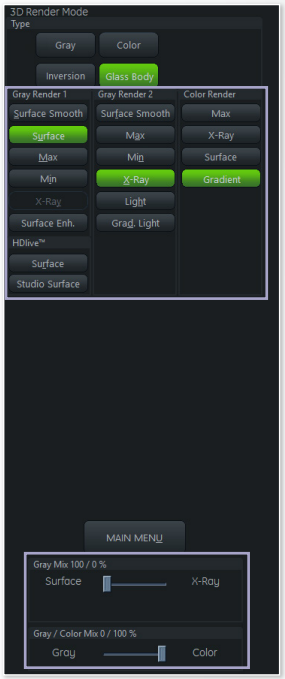
4DView Render Modes

Details of parameters available in Render Modes:









Render Modes – Gray

- Choose between render types
- Select alternate render modes
- Adjust Mix

Render Modes – HD*live*™

- Choose between HD*live* and HD*live* Studio
- Adjust Silhouette
- Add/Edit light properties

Render Modes – Color

- Choose between Glass Body & Color only
- Select alternate render modes
- Adjust both color and gray mixes

Tip

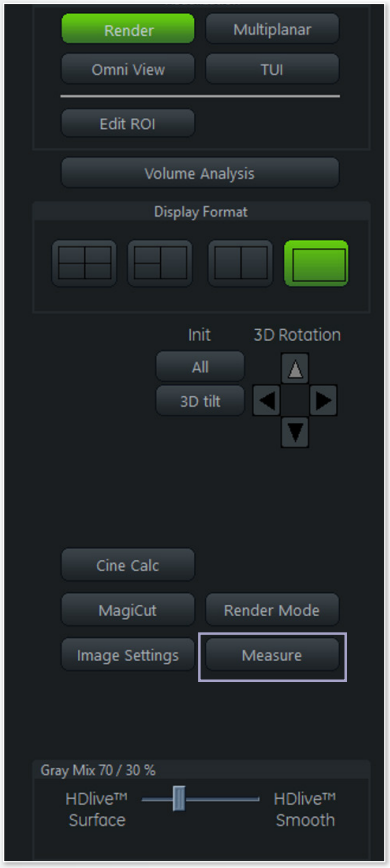
- In HD*live* modes, move light source via center mouse key
- As of 4DView 18 Ext 3 the following controls for moving the light source on a Windows® PC or Mac® are available:

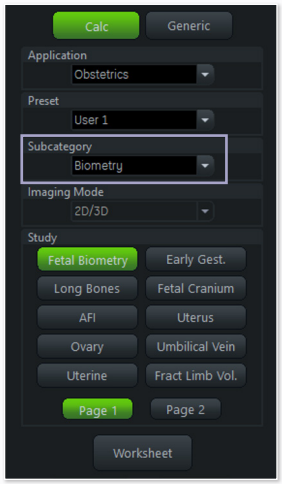
	With a "Windows mouse" having a middle wheel	With a Windows touchpad without middle button	With an Apple® keyboard
All Lights Direction	Middle Mouse Button	Left Mouse Button + Shift	Mouse click+ Shift
Point/Spot Light Distance	Middle Mouse Button + Left Ctrl	Left Mouse Button + Shift + Left Ctrl	Mouse click+ Shift + Left Command
Spot Light Size	Middle Mouse Button + Right Ctrl	Left Mouse Button + Shift + Right Ctrl	Mouse click+ Shift + Right Command
Spot Light Direction	Middle Mouse Button + Alt	Left Mouse Button + Shift + Alt	Mouse click+ Shift + Option

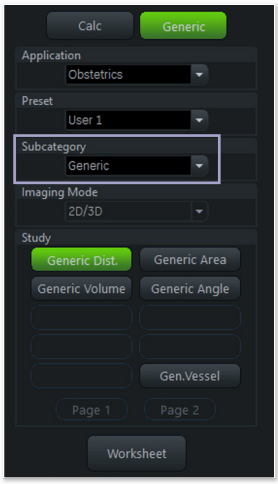
Note: Options available based on Voluson purchased options

4DView Measurements

The Measure tool in 4DView allows for OB/GYN calculation as well as generic measurement options similar as on your Voluson:

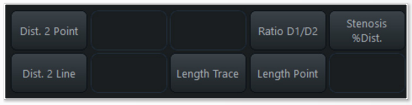




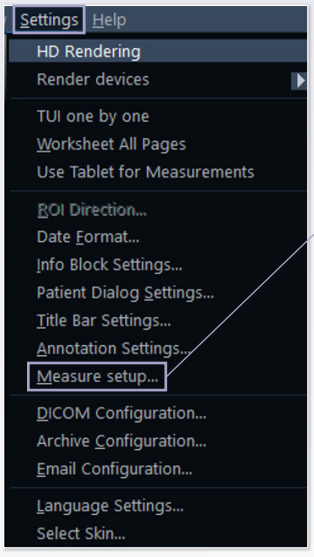


Calculations

Generic

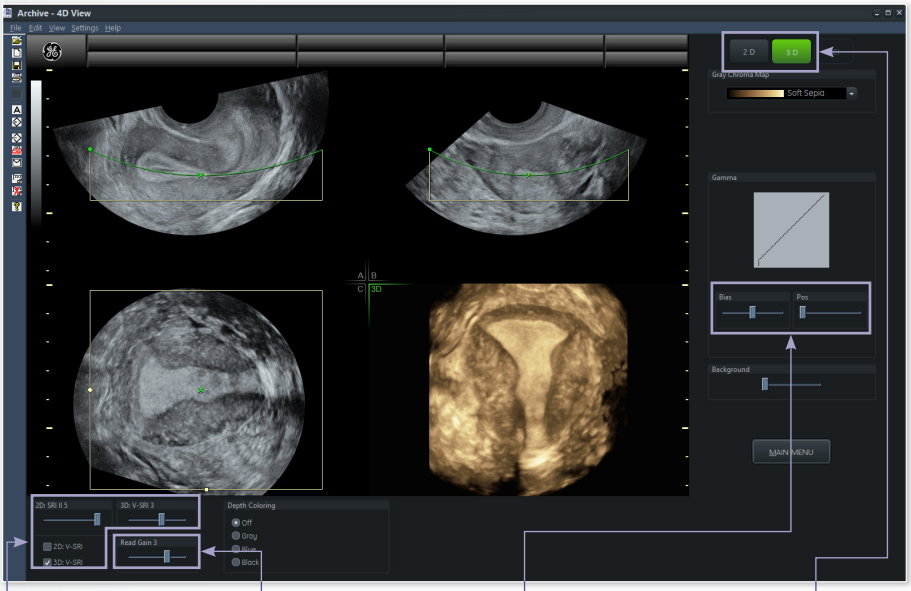


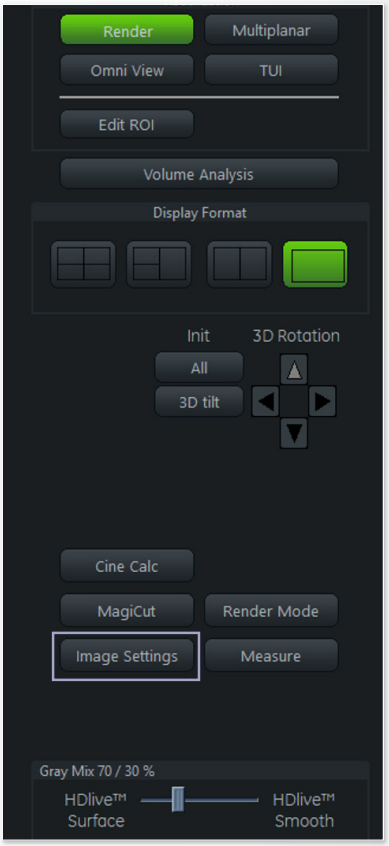
- Measurement packages can be customized
  - Enter measurement configuration from Settings menu
  - Measurements can be added, deleted or reordered based on personal preference



4DView Image Settings

Modify various imaging parameters to enhance the image quality of the volume with the Image Settings tool.



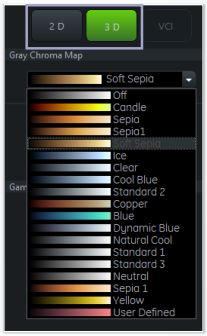


Adjust SRI or V-SRI* levels on both multiplanar (2D) or rendered image (3D)

Modify gain level

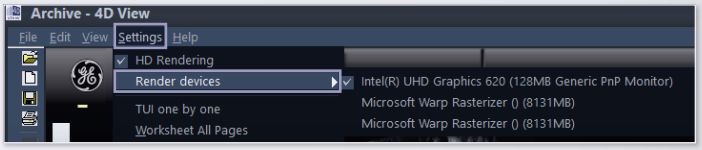
Modify contrast & brightness. Click on Gamma curve to reset

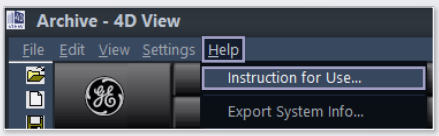
Adjust tint maps for both multiplanar (2D) and rendered image (3D)



Tips

- Note that some image settings are based on the performance of the PC's graphic card
- Refer to Instruction for Use to confirm compatibility



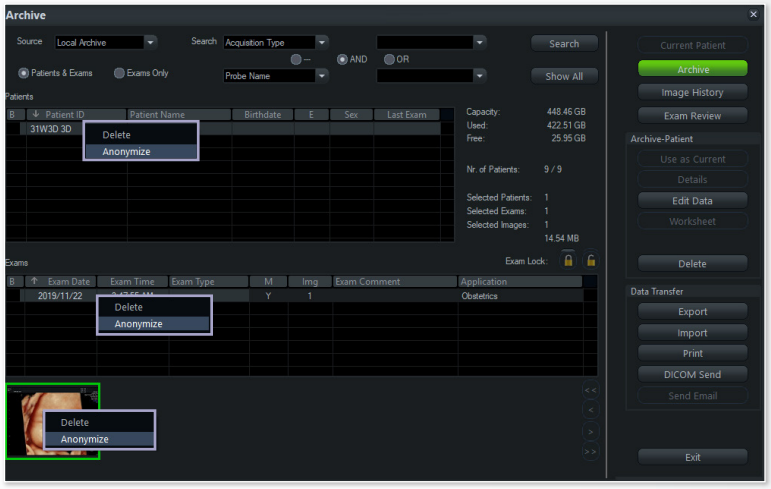


*Based on options purchased

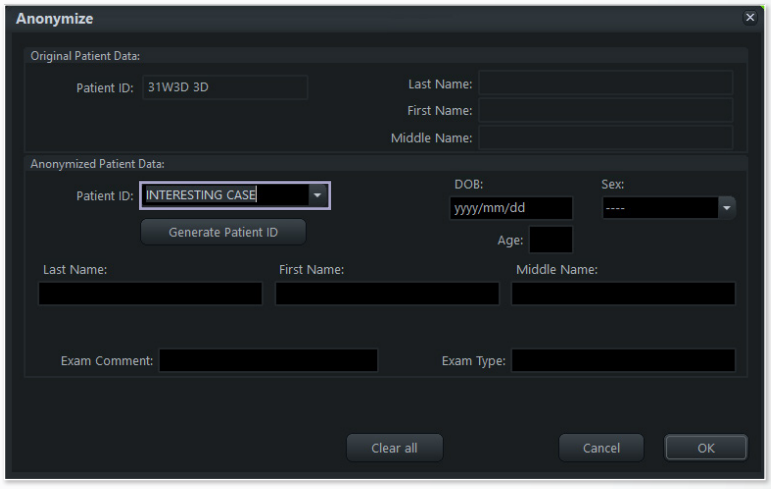
4DView Archive Anonymization Tool

Volume files can be anonymized to remove all patient identifiers.

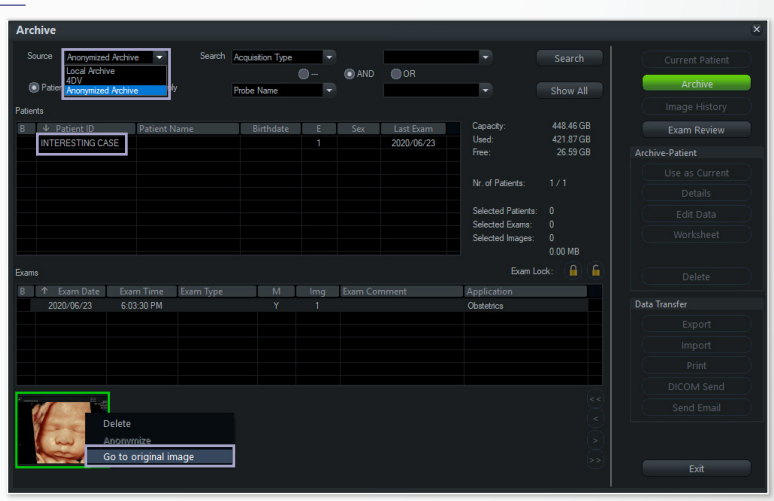
- Right-click on a patient, exam or image and choose Anonymize via left click



- Enter information in each field as desired; only Patient ID is mandatory. Selecting OK removes all patient data



- A parallel Archive is created with newly anonymized data. Original data remains in Local Archive. As long as original patient images are not deleted from Local Archive, Anonymized images can be linked back via right click. Certain images (i.e. pictures taken of the report page) are not anonymizable and will not be included.



4DView Tips & Tricks

Additional tools are available when working with volumes:

- Choose to hide portions or all Info Block information from the image

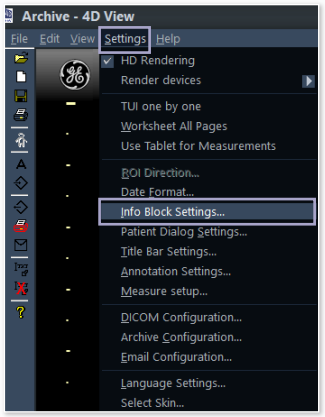
Short Format

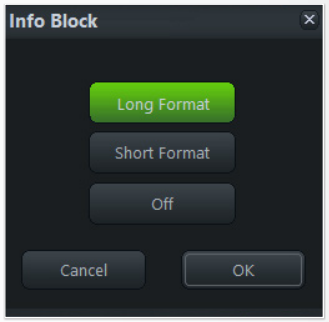
Routine
Th67/Tr40
Qual high1
B60°/V70°
Mix70/30
VSRI 4
3D Static

Long Format

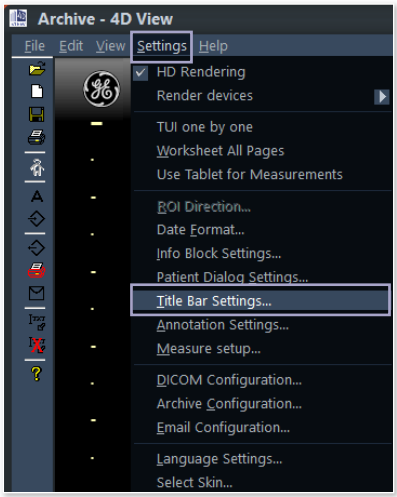
--- 3D/4D ---
Routine
Th67/Tr40
Qual high1
B60°/V70°
Mix70/30
M0/0
VSRI 4
3D Static

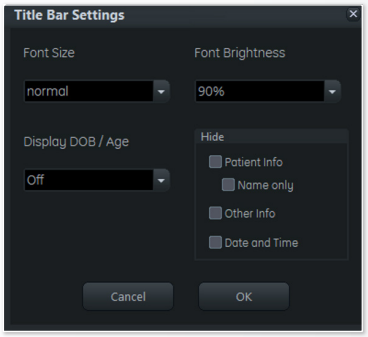
--- 2D ---
ROUTINE HD
HD Res 6.10 - 4.70
Pwr 97 %
Gn -6
C6 / M5
P0 / E1



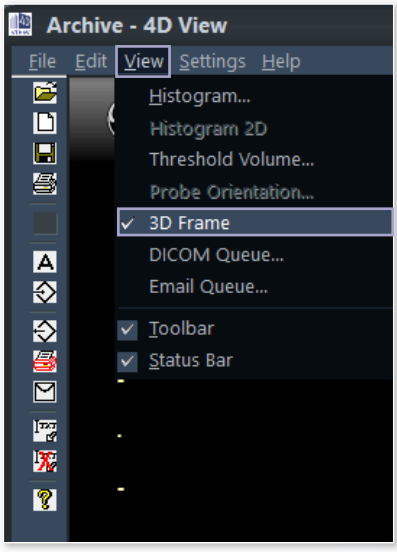


- Adjust and choose display options of Title Bar





- Show 3D Frame – helpful when teaching orientation, confirming situs and more



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January 2021
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