

Getting Started with ShowCase

Thank you for choosing ShowCase to meet your medical imaging needs.
This guide will help you and your team get started using your ShowCase
software effectively and efficiently.



Before You Begin Using ShowCase[©]

ShowCase Products

ShowCase Image Center

The Image Center provides database centered study management. It supports DICOM image store from imaging machines. The Image Center provides study search from in ShowCase Premier full image quality remote access to studies, and iPad access to studies.

ShowCase Viewers

ShowCase Premier and ShowCase Basic are both easy to use DICOM medical image viewers with a rich set of viewing features.

ShowCase Premier has features not available in Basic It has a set of image measurement tools and the ability to export studies to DVD with an Onboard Viewer. ShowCase Premier can communicate with the Image Center to provide faster, searchable study access.

The ShowCase Onboard Viewer is a limited-feature viewer that runs on Windows[®] computers from a CD or DVD and displays only the studies on the DVD.

Operating System Requirement

ShowCase viewers run under Windows 7, 8, 10 and Windows Server operating systems.

ShowCase Image Center runs under Windows 7, 8, 10, Server 2008r2, 2012, or 2012r2 on 64-bit hardware and virtual machines.

End User License

Use of any ShowCase product is subject to the license agreed to during software installation. For reference, the ShowCase viewer license text is provided at the end of this guide.



Regulatory Information

ShowCase viewing software has received US FDA clearance as a Class II Medical Device; The K number is K082135. The intended use statement reads “ShowCase is diagnostic quality radiological viewing software. ShowCase can be used to receive, store, display and manipulate medical images and associated clinical data.”

A DICOM Conformance Statement is available on our web site, www.triltech.com .

ShowCase Support

Please visit our web site for information on our purchasable Standard and Priority Support plans. Our web site also provides lots of self-help including Quick Guides with step by step instructions for common tasks such as burning studies to a DVD. You can browse our FAQs and watch a Getting Started video.

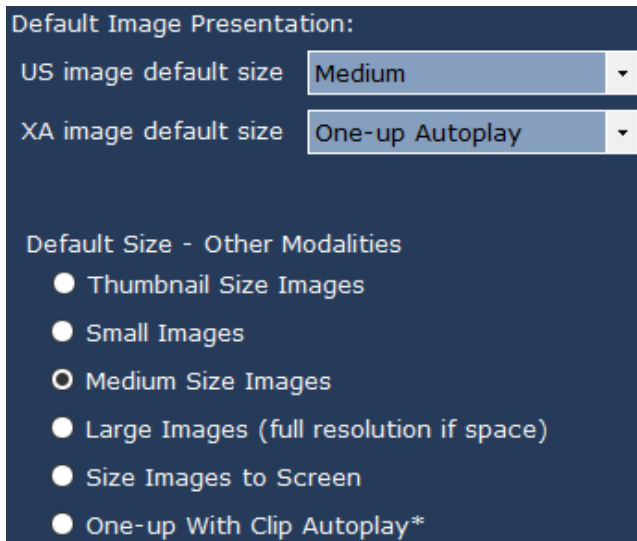
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ShowCase Study Viewing

You can customize your image viewing settings.

Go to the ShowCase (Premier or Basic) Edit Menu and select **General Preferences** to customize the way studies display on your viewing stations.

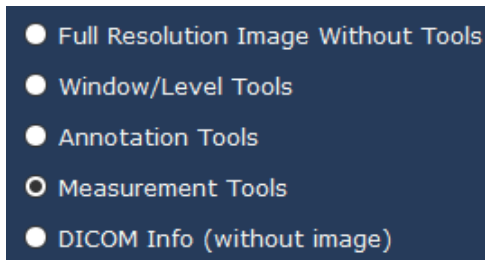
- Set your default viewing sizes



You can set the preferred image size separately for ultrasound (US), cardiac cath (XA) and other modalities.

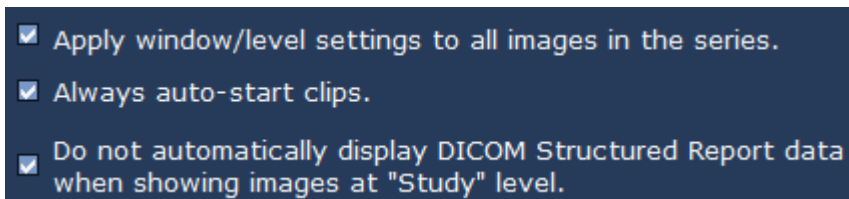
Customers commonly use: "One-up with clip autoplay", which shows images at full size, one at a time with clips playing as soon as they display, or "Medium size images" to show ultrasound images at familiar quarter size, or "Thumbnail" to see as many study images as possible on the screen. (You can toggle between thumbnail and one up using the F9 function key.)

- Configure the tools that come forward when you double-click on an image.



Double-clicking on an image always shows the image at full acquisition size. You can select the default tool set that displays with the image. If you usually want to perform measurements, select "Measurement Tools". If you use ShowCase to create teaching files and want to paint out patient information, select "Annotation Tools". If you normally want to view the image without the distraction of tools select "no tools".

Other viewing preferences available are

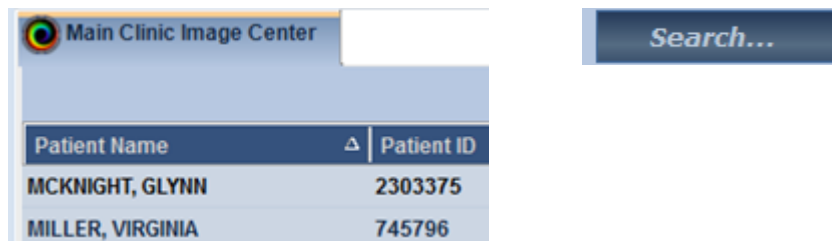


How to Find Your Studies

ShowCase can display your imaging studies from many different sources as long as the images are all in DICOM format.

To select a study from a ShowCase Image Center

If your site uses a ShowCase Image Center to manage your studies, you will usually select studies from the Image Center tab of your ShowCase Study Lists window. Click on the tab that has the color Image Center icon (spiral) and if necessary, search for the study, select it and click the **Show** button (or double-click on the study).



If you need to find a study in your Image Center, click on the **Search** button and fill in criteria for filtering the study list by date, patient name, ID, study description, modality or referring physician.

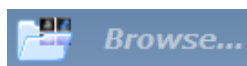
To select a study from a CD, DVD or USB flash drive

When you start ShowCase the software looks at all “volumes” on your computer to see which include a DICOM Directory at the root level of the disk or device. ShowCase should find all DICOM formatted CDs, DVDs or USB flash drives that are inserted in your machine. (Note that if you insert a new CD or DVD while ShowCase is running you may need to wait a few seconds until it is recognized). Each DICOM directory available on your machine appears on a ShowCase tab. Click on the tab for the Study List you wish to bring forward.



To display individual image files stored in DICOM format

If you have DICOM formatted images that are not organized on a disk with a DICOM directory, you can still view them using the **Browse** button. Use the Browse button to point to a folder full of files to view.



Or use the File Menu, **Browse to DICOM File** option to browse to one individual file on your PC.

How to navigate through a study

ShowCase organizes images using the DICOM model Patient/ Study / Series. Images appear in “Series” windows. You can use the scroll wheel on your mouse, or position the vertical scroll bar on the Series window to move through the images. Or you can use the keyboard arrow keys to step through rows of images. **Page Up** & **Page Down** keys step through pages of images and the **Home** and **End** keys jump to the beginning and end of the series of images.

Playing clips: If your viewing preference is not set to “auto-play clips”, you can right-click on a clip or click it’s start control below the image to play the frames in a continuous loop. There is a speed control and a controller that lets you step frame by frame.

To select a new study



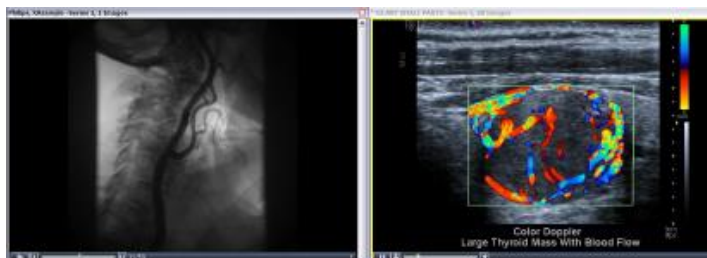
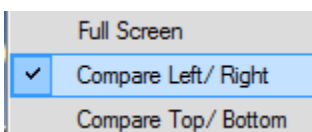
When you have finished looking at a study and want to move to a new study, close the study by clicking on the close box in the upper right corner, or by selecting the menu item File: Close. Or if you want more than one study displayed, click on the **Study List** button to select another patient study or series of images.

Navigating through multiple studies/series displays.

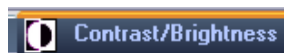


If you have more than one series window open (images and/or structured report data), you can navigate through the windows by using the **Next Series** and **Previous Series** buttons at the top of the screen.

You can view two studies next to each other in a compare mode. Click on the **Window** menu to select a layout. You can compare left/right or top/bottom.

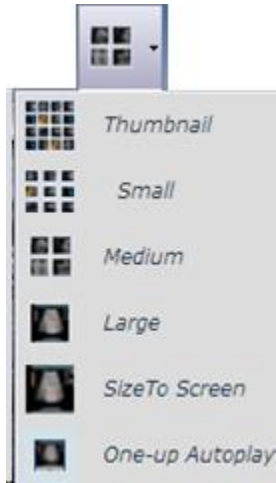


To reset image contrast and brightness



Double-click on the image and select the ‘Contrast/Brightness’ tab to readjust the window, level, or gamma correction. If you export an image (AVI or BMP for example) the exported image will keep the contrast settings. To apply the same settings to all of the images in the series, check the “Apply to All” button.

To change the size of displayed images



To change the size of the images on the screen, use the toolbar Size drop-down to select a new viewing size.

Or click F7 to move to the next size.

You can use the F9 function key to toggle between **One Up Autoplay** and **Thumbnail**.

Use **One-up Autoplay** to step thru images one at a time, playing clips.

Double-click on the image to view it at full acquired resolution and access imaging tools.

Make measurements, add annotations, or de-identify studies

When you double-click on an image you can access tools that allow you to paint out areas in images-- including multi-frame images (clips) or you can add annotations and save them. If you are running ShowCase Premier you can also access a set of basic image measurement tools, including Doppler measurements for cardiac and vascular studies.

Learn more from ShowCase Quick Guides

Here is a short list of some of the ShowCase Quick Guides that can help you with additional imaging tasks:

- Making Measurements in ShowCase
- Burning CDs/DVDs with ShowCase
- De-identifying Studies with ShowCase
- Exporting Images to Powerpoint Slides
- Viewing Structured Report Data in ShowCase
- AVI Export from ShowCase

You can view a full list and download Quick Guides from the Support section of www.triltech.com

Handy Keyboard Shortcuts

Key(s)	Action
Scroll wheel	Use the scroll wheel on your mouse to scroll thru the images in a series, or thru the list of studies in a study list.
Right-click	Start/stop a clip playback
Double-click	Open the full size image window and access brightness & contrast, annotation tools, paint-out tools and image measurement tools.
Ctrl-A	Select All images
Ctrl-B	Browse to a folder of images
Ctrl-O	Open Directories Window to select a new study
Ctrl-P	Print the current series of images
F7	Move to the next image display size (cycles thru all sizes thumbnail to full screen)
F9	Toggle to/from "one-up auto-play" mode
Pg Up	Scroll to the previous screen of images
Pg Down	Scroll to the next screen of images
Home	Scroll to the first image in the series
End	Scroll to the last image in the series
↑ (up arrow)	Scroll up one row of images
↓ (down arrow)	Scroll down one row of images

SHOWCASE Viewer End User License Agreement

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3.2 Indemnification. User shall defend, indemnify and hold Trillium and its officers, directors, employees, and agents harmless from and against any and all threatened or actual claims, actions, liability, suits, expenses, costs, fees (including attorney's fees), damages, or losses arising from or relating to (i) use of the Software by persons authorized by User; (ii) User's acts (or any failure to act) hereunder; and (iii) any breach by User of User's obligations hereunder.

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4.1 Term. This Agreement shall terminate immediately upon the earlier to occur of (i) User's notice to Trillium; or (ii) User's breach of the Agreement. Immediately upon termination, User shall destroy any copies of the Software, Dongles, or Documentation in User's possession or control. Section 1.2, Section 1.3, and Articles 2, 3, and 4 shall survive the termination of this Agreement.

4.2 Assignments. All delegations, transfers or assignments of rights, duties or obligations under this Agreement by User without the prior written consent of Trillium shall be null, void and without effect.

4.3 Restricted Rights. The Software and documentation are provided with RESTRICTED RIGHTS. Use, duplication, or disclosure by the Government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of The Rights in Technical Data and Computer Software clause at DFARS 252.227-7013, 227.7202-1(a) and 227.7202-3(a) or subparagraphs (c)(1) and (2) of the Commercial Computer Software-Restricted Rights at 48 CFR 12.212(a), or 52.227-14(41 & III), 52.227-19, as applicable.

4.4 Entire Agreement. This Agreement contains the entire understanding of the parties and supersedes previous verbal and written communications, proposals and agreements between the parties concerning the subject matter hereof.

4.5 Amendments and Modifications. Unless specifically provided in this Agreement, waivers, alterations, modifications or amendments of a provision of this Agreement shall not be binding unless such waiver, alteration, modification or amendment is in writing and signed by an authorized representative of both parties.

4.6 Severability. If a provision of this Agreement is rendered invalid, void or unlawful, the remaining provisions shall remain in full force and effect.

4.7 Counterparts. This Agreement may be executed in multiple counterparts, each of which shall be an original, but which together shall constitute one and the same instrument.

4.8 Governing Law. This Agreement shall be governed by the laws of the State of Michigan without regard to any rules of conflict or choice of laws. The parties consent to the exclusive jurisdiction of the state and federal courts in the Eastern District of Michigan with respect to all disputes arising from or related to this Agreement.

4.9 Relationship of the Parties. It is agreed that the relationship of the parties is primarily that of an independent contractor. Nothing herein shall be construed as creating a partnership, an employment relationship, or an agency relationship between the parties, or as authorizing either party to act as agent for the other.