

Getting Started with SHOWCASE®

Thank you for using ShowCase for 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 Viewer: **ShowCase Premier**, **ShowCase Workstation** and **ShowCase Basic** are DICOM medical image viewers. ShowCase Premier and Workstation can be connected to the **ShowCase Image Center** study management product. ShowCase Premier and Workstation come with the **ShowCase Portable Viewer**, a limited-feature viewer that exports from ShowCase Premier and ShowCase Workstation to a CD, DVD or USB flash drive and displays the studies on the disc or flash drive on Windows® computers. **ShowCase Workstation** can Query/Retrieve from PACS and Send studies to PACS. It can also be configured to automatically forward studies to PACS or an Image Center.

License: Use of any ShowCase product is subject to the license agreed to when running the software installers. The 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.”**

DICOM Conformance Statement: The latest DICOM Conformance Statement is always available on the Trillium Technology web site, www.triltech.com. The ShowCase Image Center is a DICOM Image Store Service Class Provider (SCP). The ShowCase Workstation is a DICOM Image Store Service Class Provider (SCP) and a DICOM Service Class User (SCU).

ShowCase Support: We offer two support plans: Standard Support (email only, business hours Eastern US Time) and Priority Support (email, phone, remote desktop, extended hours). Support plans are billed annually. Support for licensing issues is available regardless of your plan status, as is the FAQ and documentation on our web site: <http://www.triltech.com>. While a support plan is not required for your ShowCase products to run, we generally recommend that all customers maintain at least Standard Support.

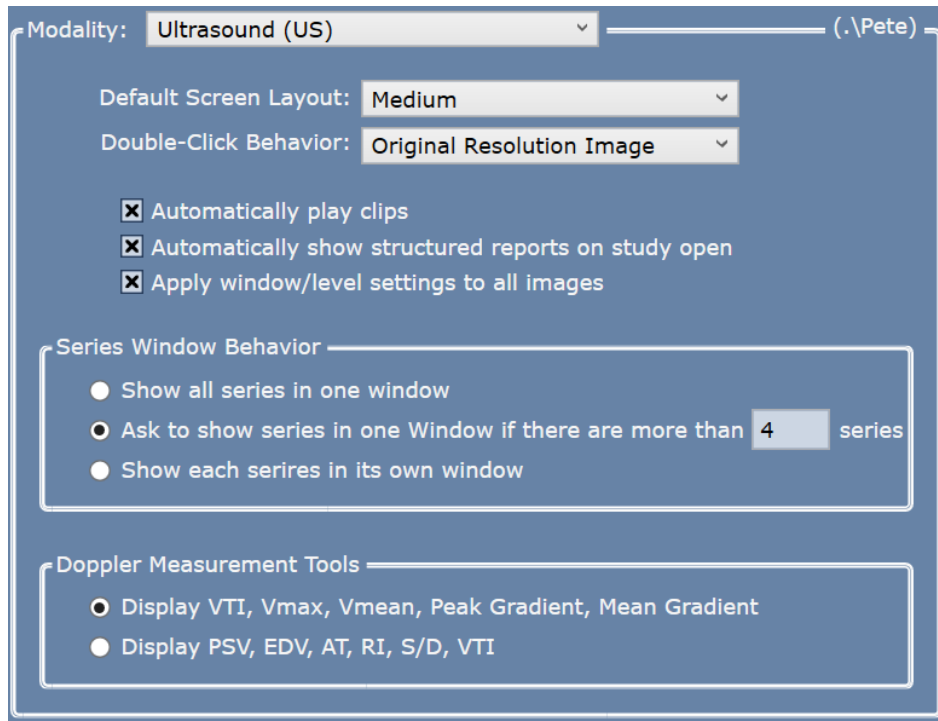
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Image Viewing

ShowCase viewers have a set of preferences you can access from the Edit Menu. You may want to customize the way images display on your viewing computers.

To set your default viewing sizes and other behaviors...

Select the Edit Menu, ShowCase Settings... item and click the Viewer tab to set the default viewing behavior on your computer.

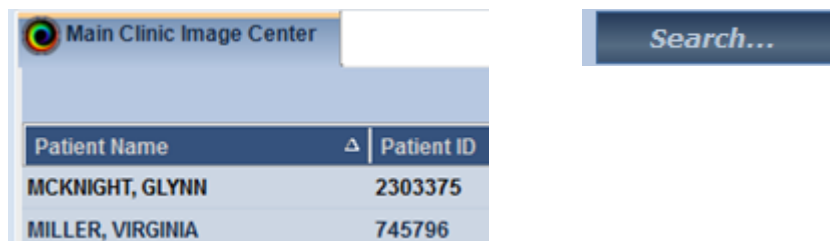


Each Modality has its own settings, which allow you to control your default screen layout, double-click behavior and a variety of other default behaviors for that modality.

Accessing the studies you want to view will depend on where your studies are stored.

To select a study from a ShowCase Image Center

If your site uses a ShowCase Image Center to manage your studies, you will normally 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 a new study list filtered by date, patient name, ID, study description, modality or referring physician.

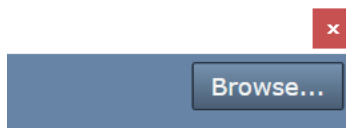
To select a study from a CD, DVD or USB flash drive

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



To select individual image files in DICOM format

If you have DICOM formatted images that are not organized on a DICOM disk with a directory, you can still view them using the **Browse** button, which you will find in the upper right corner of the Study List. Use the Browse button to point to a folder full of files to view. Or use the File Menu => Open => Dicom File or File Menu => Open => Dicom Folder options.



Navigating through the images in a study

You can use the scroll wheel on your mouse or position the vertical scroll bar to move through the images. Or you can use the keyboard arrow keys to step through rows of images, ‘Page Up’ & ‘Page Down’ keys to step through pages of images and the *Home* and *End* keys to jump to the beginning and end of the study.

Tip: You can stop and start clips by right clicking on the clip. To start all clips playing, click on the

play button  in the upper right corner.

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 study displays.

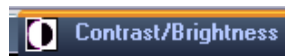


If you have more than one image window open, you can navigate through the windows by using the **Next** and **Prev** buttons at the top of the screen.

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.

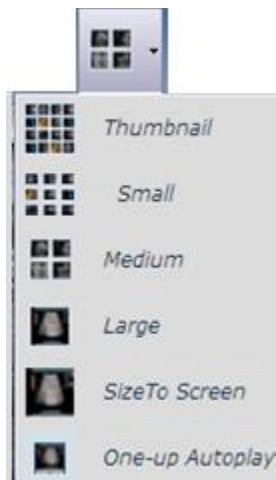


To reset image contrast and brightness



Double-click on the image and select the 'Contrast/Brightness' tab to readjust the window, level, or gamma correction as desired. 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 you are displaying, use the toolbar size drop-down to select a new viewing size.

Or click F7.

You can use the F9 function key to toggle between "One Up Autoplay" and Thumbnails.

Use One-up Autoplay to step thru images one at a time.

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

A Note About Clip Playback

ShowCase makes every effort to play back clips at the clip playback speed set by the imaging device and stored in the DICOM image file. If your computer's hardware is having difficulty maintaining the specified frame rate, it is possible that frames will be dropped. If this occurs, a flashing indicator will appear. If your hardware meets the specifications designated in the ShowCase Hardware Requirements, it is very unlikely you will ever encounter this condition.

ShowCase Documentation

For a complete set of all ShowCase documentation, please visit our web site at <http://www.triltech.com/documents.html>.

Handy Keyboard Shortcuts for Quicker Image Viewing

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 next screen of images
Pg Down	Scroll to the previous 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 AGREEMENT

This End User Agreement (“Agreement”) by and between Trillium Technology, Inc., with a place of business in Ann Arbor, Michigan U.S.A. (“Trillium”) and you (“User”) states the terms and conditions under which the User may use the SHOWCASE software (the “Software”). Please read this Agreement carefully before accessing and using the Software. By using and accessing the Software, and by clicking the button that represents your agreement with this license, you indicate that you have read and understand this Agreement and that you are and agree to be bound to this Agreement. If you do not accept this Agreement, cancel this installation and neither access nor use the Software.

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1.1 License. Subject to the terms of this Agreement, Trillium grants to User the right to use and perform the Software for User’s internal business use only. For each FIXED (Internet or manually activated) license acquired, the foregoing license authorizes the installation of one copy of the Software on a single computer, provided that the primary user of a computer on which a copy of the Software is installed may make a second copy for his or her exclusive use on either a home or portable computer. User may not disassemble, decompile, reverse engineer, or otherwise translate the Software or any portion thereof, nor may User permit or encourage any of the foregoing. User may use the User’s Guide, including all updates thereto (“Documentation”) only in connection with User’s use of the Software hereunder. The rights granted herein do not include the right to sublicense.

1.2 Dongles. If User has received a hardware key (“Dongle”) from Trillium, User is authorized to make copies of the Software on computers within User’s possession and control. User shall not, and shall not attempt to, duplicate, replicate, reverse engineer, disassemble, or circumvent any Dongle provided to User. In the event that User damages a Dongle, it may return the Dongle to Trillium for repair or replacement (in Trillium’s sole discretion), subject to Trillium’s then-current payment terms. In the event that User declares a Dongle lost, then Trillium will replace the Dongle upon User’s payment of Trillium’s then-current portable license fee, which amount is non-refundable in the event that User later recovers the initial Dongle.

1.3 Fees. Amounts paid by User in connection with the Software are non-refundable.

2. ARTICLE 2. INTELLECTUAL PROPERTY

2.1 Ownership and Title. Other than limited portions of the Software performed, distributed, and reproduced under license from Glyph & Cog, LLC, User agrees and acknowledges that Trillium owns all right, title and interest in and to the Software, Documentation and all intellectual property therein, and that User will not obtain or claim any ownership interest in the Software or Documentation, or any portion thereof, or any intellectual property therein. User agrees and acknowledges that the Software and Documentation contain the valuable trade secrets and proprietary information of Trillium, which have been developed at great expense over many years. User will not obscure, alter or remove any patent, copyright, trademark, service mark or other marking or legend contained on or in any Software or Documentation. User will ensure that no unauthorized persons have access to the Software, and that no persons authorized to have such access will take any action in violation of this Agreement. SHOWCASE is a trademark owned by Trillium and registered with the U.S. Patent and Trademark Office (Reg. No. 2,728,082).

2.2 Confidentiality. User hereby acknowledges that the Software and Documentation contain information that is trade secret and proprietary to Trillium. User hereby agrees not to disclose such information except to persons and organizations expressly authorized by Trillium to receive such information.

2.3 Confidential Information. User must keep all Trillium Confidential Information to which User has access in strict confidence. User may not disclose Confidential Information, except to persons authorized by Trillium.

3. ARTICLE 3. WARRANTY LIMITATION

3.1 WARRANTY LIMITATION. EXCEPT AS EXPRESSLY PROVIDED HEREIN THE SOFTWARE AND USER'S USE THEREOF IS PROVIDED "AS IS" WITHOUT WARRANTY, EXPRESS OR IMPLIED OF ANY KIND, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK ARISING OUT OF THE USE OR PERFORMANCE OF THE SOFTWARE REMAINS WITH USER. IN NO EVENT WILL TRILLIUM BE LIABLE FOR ANY DAMAGE WHATSOEVER ARISING OUT OF THE USE OF OR INABILITY TO ACCESS THE SOFTWARE OR TO USE THE SOFTWARE, EVEN IF TRILLIUM HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. TRILLIUM DOES NOT WARRANT THAT THE OPERATION OF THE SOFTWARE WILL BE UNINTERRUPTED OR ERROR FREE. USER ACKNOWLEDGES AND AGREES THAT USER HAS NOT RELIED ON ANY EXPRESS OR IMPLIED REPRESENTATION OF DISCREET, WRITTEN OR ORAL, AS AN INDUCEMENT TO ENTERING INTO THIS AGREEMENT. Some jurisdictions do not allow limitation of certain warranties, so the above limitation may not apply to User. This limited warranty gives User specific legal rights.

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.

3.3 Limitation of Damages. TRILLIUM SHALL NOT BE LIABLE TO USER UNDER THIS AGREEMENT OR IN CONNECTION WITH THE SOFTWARE FOR ANY PERSONAL INJURY, LOST PROFITS, CONSEQUENTIAL, EXEMPLARY, INCIDENTAL, OR PUNITIVE DAMAGES, REGARDLESS OF THE FORM OF ACTION, WHETHER IN CONTRACT OR IN TORT, INCLUDING NEGLIGENCE, AND REGARDLESS OF WHETHER TRILLIUM HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES IN ADVANCE OR WHETHER SUCH DAMAGES ARE REASONABLY FORESEEABLE. NOTWITHSTANDING ANY PROVISION TO THE CONTRARY, THE LIABILITY OF TRILLIUM FOR ANY REASON AND FOR ANY CAUSE OF ACTION WHATSOEVER IN CONNECTION WITH THIS AGREEMENT AND THE SOFTWARE OR USER'S USE THEREOF SHALL NOT EXCEED AMOUNTS PAID TO TRILLIUM HEREUNDER.

4. ARTICLE 4. MISCELLANEOUS

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.