

Omni-QC[®]

Installation & User Manual

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Chapter One

Introduction to Omni-QC[®]

Omni-QC[®] is a DICOM acquisition software for Kodak/Orex CR Reader. Omni-QC[®] is DICOM compatible including DICOM Send (SCU), DICOM Print for easy networking with third party PACS or modalities.

Features

Local database

Display and convert DICOM versus non-DICOM images (JPEG, TIFF and BMP)

DICOM Send

DICOM Print DIR

Supports one or two (Worklist, View) up to 2K

Supports twain drives

Image processing and editing capabilities

Image stitching

Customize DICOM information overlay.

Logo of hospital can be displayed like a banner.

Hardware Requirements

- 1) CPU: Pentium IV, 1 GHz or higher.
- 2) Memory: 256M or higher.
- 3) HDD: 40G HDD or higher.
- 4) Ethernet network card: 10/100Mb NIC.
- 5) OS: Window NT/2000 Pro/XP Pro.

Install Omni-QC

- **Note:** Omni-QC is a compliment program to Kodak/Orex Interface software. Please refer to your Kodak/Orex User Manual for proper installation procedure and operation of the interface software. The Kodak/Orex drivers must be installed prior to Omni-QC installation.

For Installation from a web download skip to step # 4

1. Insert the OMNI-QC Viewer Installation CD.
2. To begin installation, open **My Computer**.



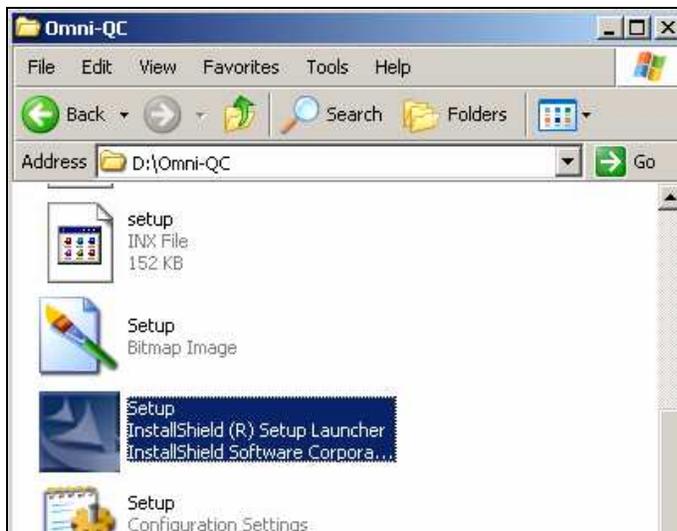
3. Click on the CD drive labeled **GenesisDigital**.



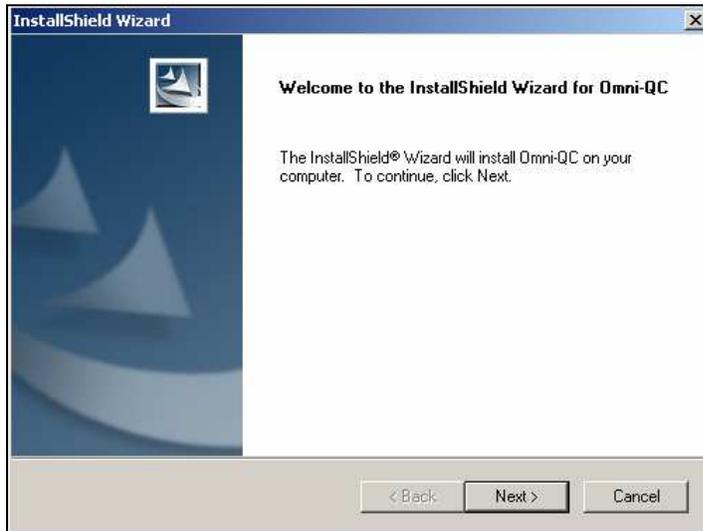
4. Click on the **OMNI-QC** folder.



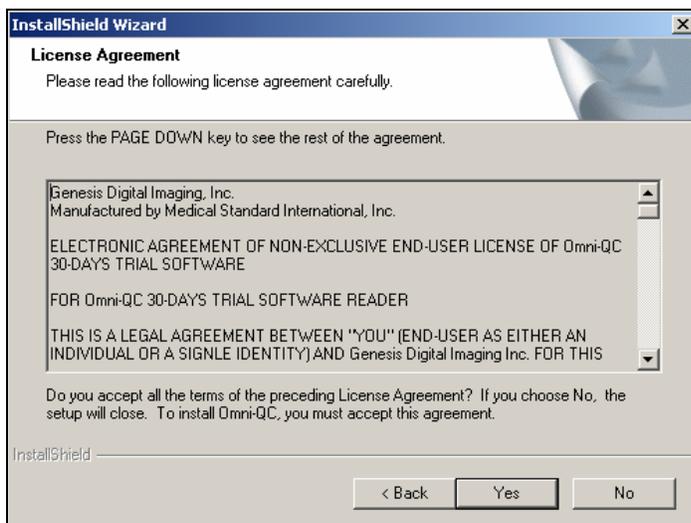
5. Click on the Setup icon to initiate the **InstallShield** Setup Launcher.



6. Click **Next**.



7. Click **Yes** if you accept the terms of the license agreement.



8. Enter the **principal owner's name** and the **name of your company** in the indicated areas. The serial number is **"Omni-QC"**

InstallShield Wizard

Customer Information
Please enter your information.

Please enter your name, the name of the company for which you work and the product serial number.

User Name:
PRINCIPAL OWNER'S NAME

Company Name:
YOUR COMPANY NAME

Serial Number:
Omni-QC

InstallShield

< Back Next > Cancel

Omni-QC

9. Click **Next** if the default folder destination shown is acceptable, otherwise click **Browse** to change the destination.

InstallShield Wizard

Choose Destination Location
Select folder where Setup will install files.

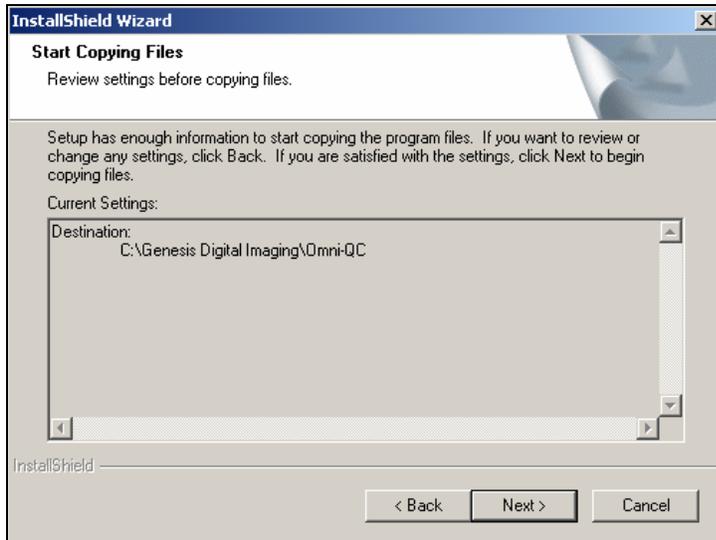
Setup will install Omni-QC in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.

Destination Folder
C:\Genesis Digital Imaging\Omni-QC Browse...

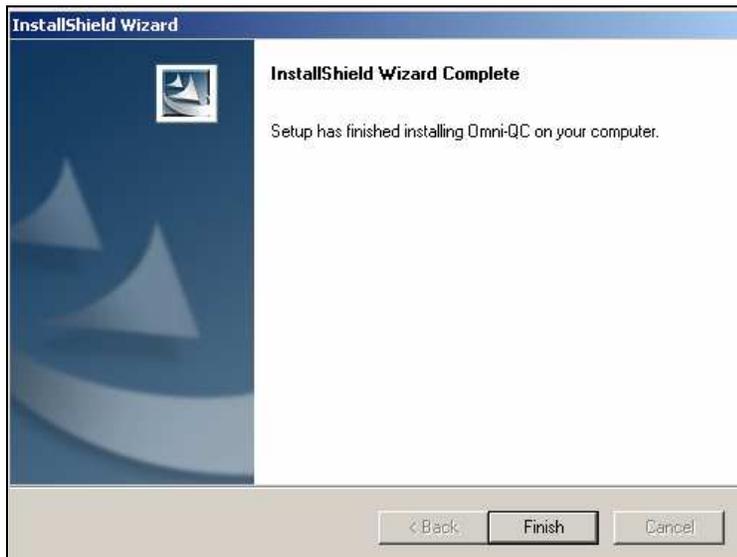
InstallShield

< Back Next > Cancel

10. Click **Next**.



11. Click **Finish**. This will close the installation program.



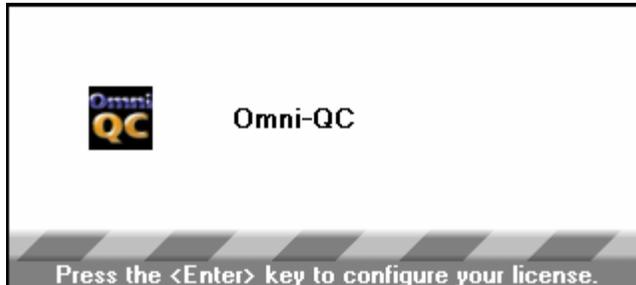
HOW TO CONFIGURE THE LICENSE

1. Click on the **OMNI-QC** icon on the desktop to open the program.



2. When prompted by the dialogue box:

- A. For 30 day Trial **DO NOT** press **Enter** and proceed to Step 2 on Page 9
- B. To license the software press **Enter** and follow the instructions.



3. Click the **Display Site Code** button.



4. Click on the **Yes** button in order to continue, or choose to **View License Agreement** if desired.



5. Locate the **Site Code** (blurred out in this example). Give Genesis the **Site Code**, and they will give you the **Site Key**.

(*Note: Each Site Code is unique. You must use the Site Code displayed on your own machine.)



6. Once you have the **Site Key**, enter it in the field marked **Site Key**.

7. Click the button marked **Validate**.

8. With a valid Site Key, the program will now be successfully registered.

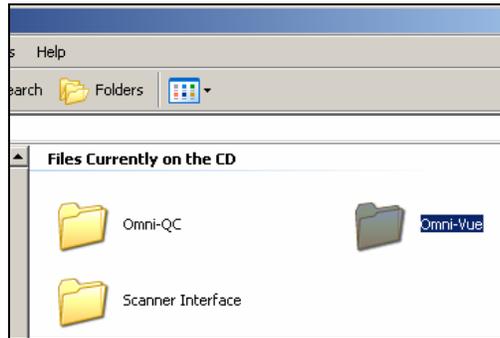
1. Insert the OMNI-QC Viewer Installation CD.
2. To begin installation, open **My Computer**.



3. Click on the CD drive labeled **GenesisDigital**.



4. Click on the **OMNI-QC** folder.



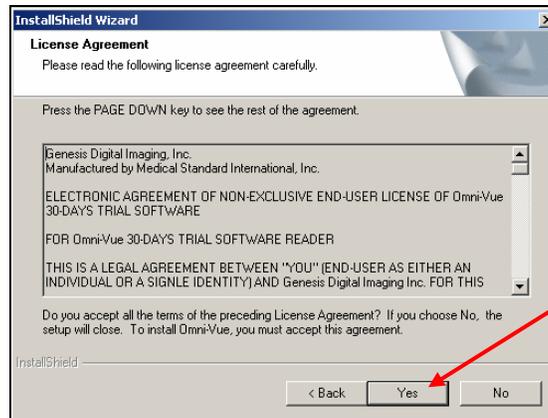
5. Click on the Setup icon to initiate the **InstallShield** Setup Launcher.



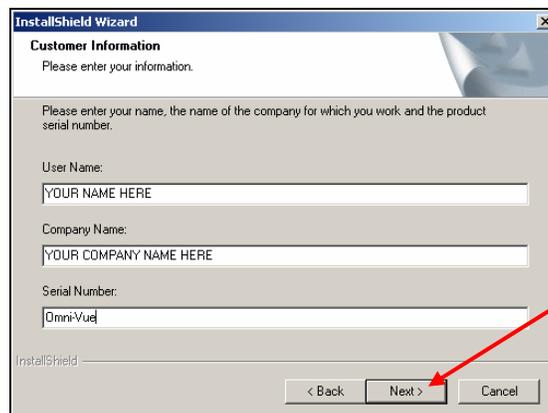
6. Click **Next**.



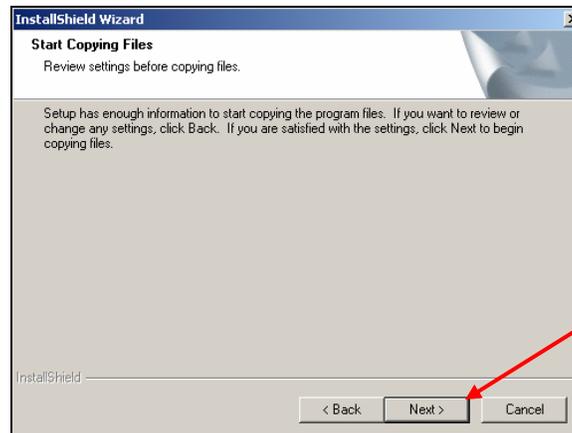
7. Click **Yes** if you accept the terms of the license agreement.



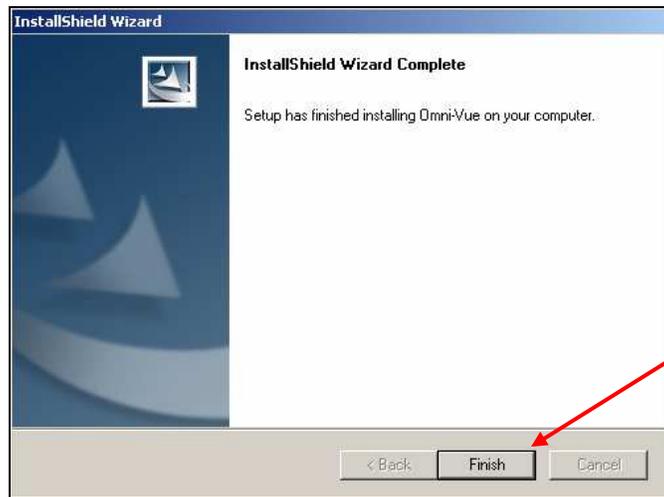
8. Enter the **principal owner's name** and the **name of your company** in the indicated areas. The serial number is "Omni-QC."



9. Click **Next**.



10. Click **Finish**. This will close the installation program.



Chapter Two

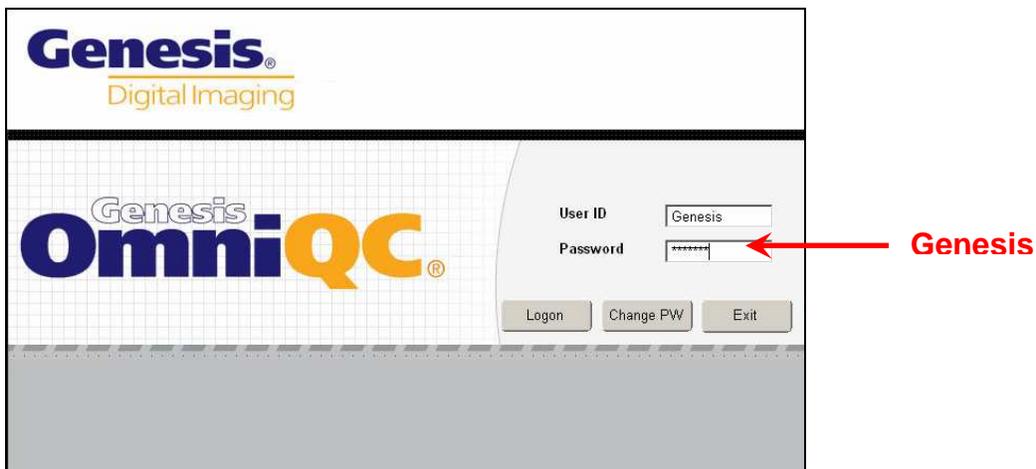
How to Configure & Use QC

BEGIN & CONFIGURE OMNI-QC

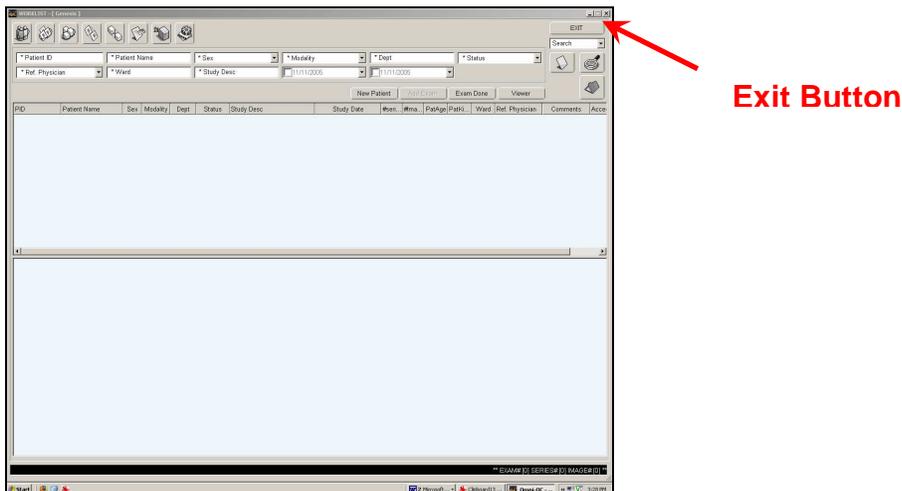
1. Click on the **OMNI-QC** icon on the desktop to open the program.



2. Default **User ID** and **Password** are both "**Genesis**". To change the password, press the **Change PW** button and follow the screen instructions.

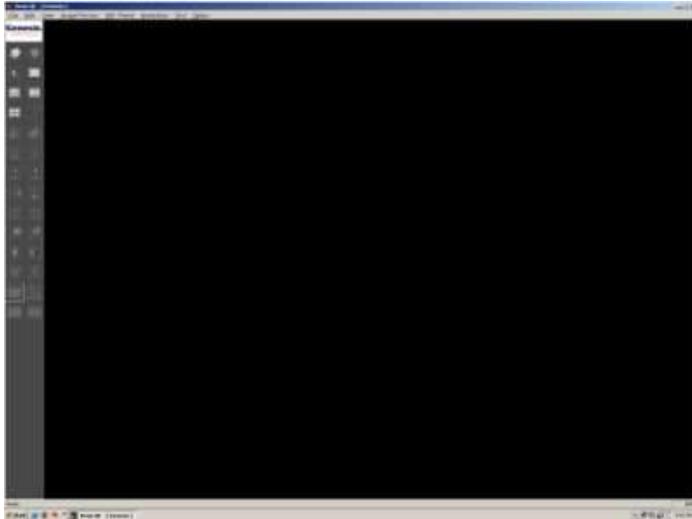


3. Omni-QC starts with the "**Work List**" display, shown in the following window.

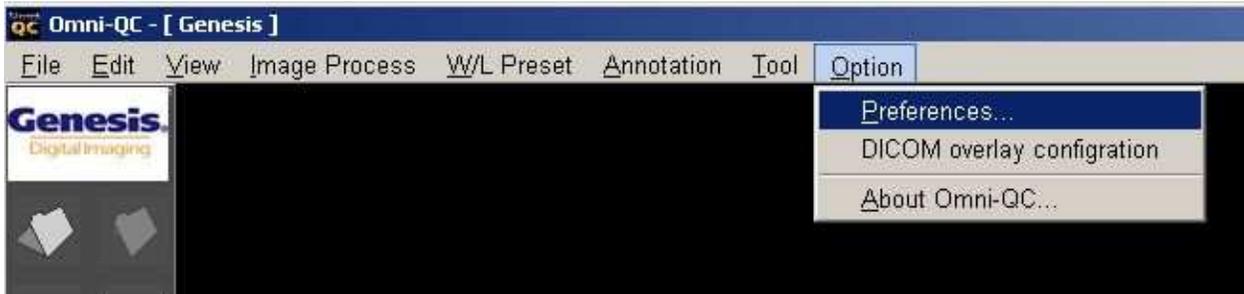


4. Click on "Exit" Button

5. Viewer is displayed with no image.

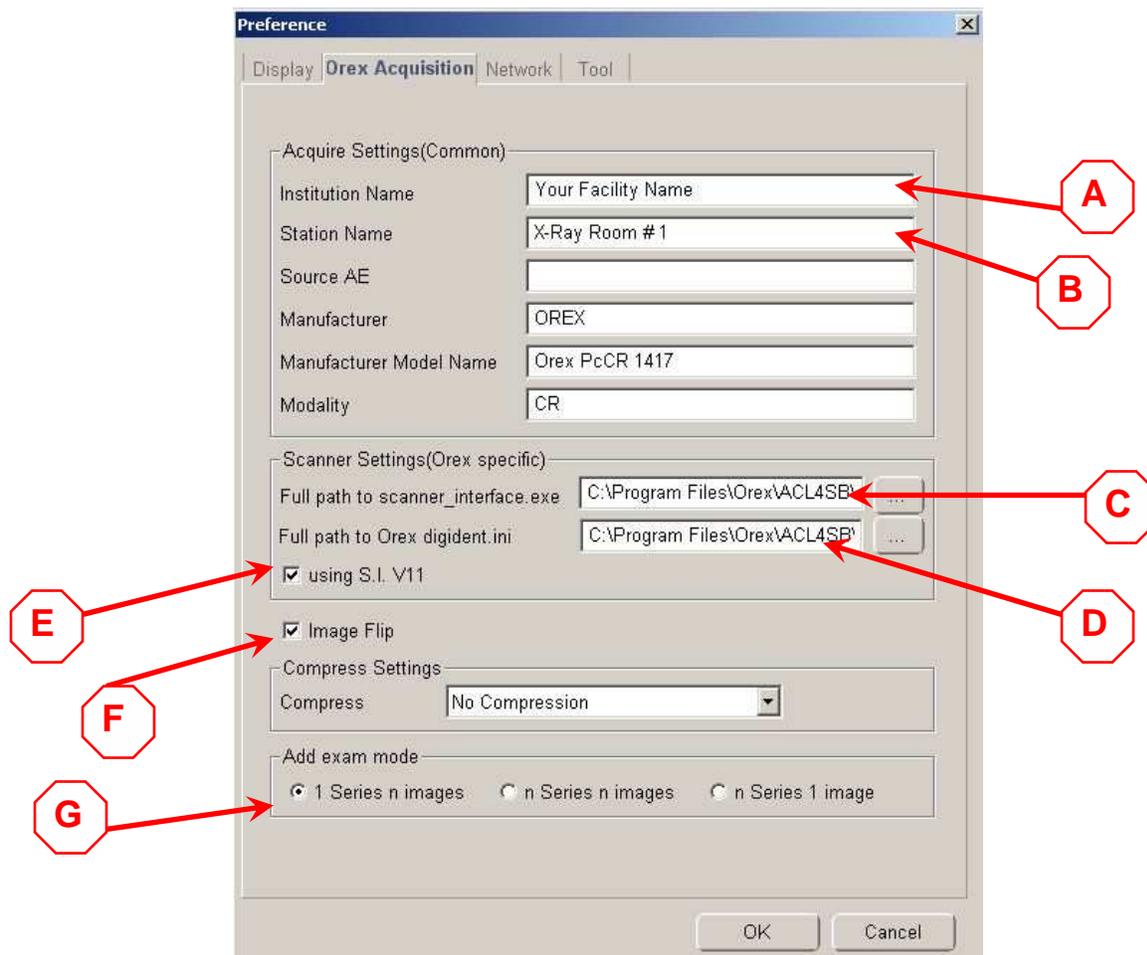


6. From the Tool Bar go to Option → Preferences



7. Click on “Orex Acquisition” Tab





8. Enter the following information

- A.** Enter Your Facility Name
- B.** Station Name (optional)
- C.** Path to Orex Interface (default is displayed)
- D.** Path to Orex Digident file (default is displayed)
- E.** Check for using S.I. V11
- F.** Check for Image Flip
- G.** Check for “1 Series n images” for multiple images in one series

9. Press OK to go back to the viewer.

Worklist Overview

The screenshot shows the 'WORKLIST - [Genesis]' window. At the top, there is a toolbar with icons for various actions. Below the toolbar is a search and filter section with fields for Patient ID, Patient Name, Sex, Modality, Dept, Status, Ref. Physician, Ward, and Study Desc. Below this is a table of exams with columns: PID, Patient Name, Sex, Modality, Dept, Status, Study Desc, Study Date, #seri..., #ma..., PatAge, PatKl..., Ward, Ref. Phys. Below the exam table is a table of previously displayed exams with columns: PID, Patient Name, Sex, Modality, Dept, Status, Study Desc, Study Date, #seri..., #ma..., PatAge, PatKl..., Ward, Ref. Physician, Commer. At the bottom right, there is a status bar showing 'EXAM# [4] SERIES# [4] IMAGE# [11]'.

PID	Patient Name	Sex	Modality	Dept	Status	Study Desc	Study Date	#seri...	#ma...	PatAge	PatKl...	Ward	Ref. Phys
test123	Lastname, Firstname	M	CR		Incompleted		01/16/2006 13:07:21	1	4		ETC		
01132006	Souza, Kaiser	M	CR		Incompleted		01/13/2006 13:05:54	1	1		ETC		
127	Squarepants, Sponge Bob	O	CR		Completed		01/09/2006 14:26:20	1	1		ETC		
666	Potter, Harry	M	CR		Completed	Image Stitching	09/27/2001 16:04:06	1	5		ETC		

PID	Patient Name	Sex	Modality	Dept	Status	Study Desc	Study Date	#seri...	#ma...	PatAge	PatKl...	Ward	Ref. Physician	Commer
test123	Lastname, Firstname	M	CR		Incomple...		01/16/2006 13:07:21	1	4		ETC			

1. Query filter
2. Exam list
3. Previously Displayed exams
4. Number of exams, series and images

Worklist Database

- New Patient** Add a New Patient
- Add Exam** Add an Exam to an existing series
- Exam Done** Save changes and send to destination
- Viewer** Launch Omni-Vue DICOM Viewer **

-  Search/Refresh List  Open Exam in Viewer
-  Clear Search Filter **EXIT** Exit Worklist



-  DICOM Edit  Merge Exam
-  Merge Series  Split Exam
-  Split Series  Delete Exam
-  DICOM Send SCU  Worklist Configuration

**** Requires installation Omni-Vue DICOM Viewer Software**

Change Patient Information

DICOM Edit: Change the patient information of the exam.

Merge Exam: The exam merges to another exam.

Merge Series: Merge the series to another series.

Split Exam: Split the series to another exam.

Split Series: Split the image to another series.

Merge Patient

Change the Patient ID, Name, Sex and date of birth of the exam.



DICOM Information

Patient Information

* Patient ID	01132006	* Sex	M
* Last Name	Souza	* DOB (MM/DD/YYYY)	1/13/1997
* First Name	Kaiser		
Middle Name			

Study Information

Study ID	Chest 2 Views	Accession Number	2006011313031067
Study Description			
Clinical History			
Contrast / Bolus Agent			

Referring Physician

Last Name		Select Referring Physician Name
First Name		
Middle Name		

Series Information

Series Description	
--------------------	--

Cancel OK

Change DICOM information such as Patient ID, Name, Sex and date of birth.

Click 'OK'

Click Refresh Button in the upper right hand corner to Display Changes



Merge Exam

Merge the exam to another exam.



Right-click of the Merge Exam and click *merge exam*.

Merge Exam...

Display different exam lists of the same patient on the Destination Exam.
 Click 'Merge' to be merged with exam.

Type [Patient ID] and click *search*.

If the patient information is in DB, list will be displayed on right portion of Destination Patient.
 Click *the patient* and click *Merge* to change the patient information.

Merge with exam of another patient.

- Type in the [PID] of patient in Destination Exam and click *search*.
- Click the exam to be combined in list and click *Merge*.

Merge Exam x

Source Exam

PID: Name:

CR

Destination Exam

PID: Name:

Modality	Study Desc	Study Date	Dept	#Ser...	#ma...
CR	1	2005/11/21 17:44:52		1	1
CR		2005/11/14 17:14:04		1	2

Merge Series

Merge the series to another series.



Right-click to apply Merge to one Series and click 'Merge to one series'

Merge Series...

Select key series to be seen as Series Title.

- Click the series on the Series List
- Click '>' (Click '<' to release)



Select the series to be merged to Key Series

- Click the series on the Series List
- Click '>' (Click '<' to release)



Click *Merge*.

Split Exam

Split series on exam as separate exam.



Right-click on exam, which apply Split Exam and click 'split Exam'



Select series to be split.

- Click the series to be split on current exam list.
- Click '>' (Click '<' to release)



(Click 'Shift or CTRL' for multiple selection)
 (Click '>>/'<<<' to appoint/release all)



Click *Split Exam*

Split Exam [X]

Exam Information:

PID: Patient Name: Modality:

StudyDesc: StudyDate: #Ser: #mg:

Series List

Current Exam:				New Exam:			
Series No	Series ...	BodyPart	#image	Series No	Series ...	BodyPart	#image
2	Chest AP		1	1	Chest AP		1
3	Chest AP		1				
5	Chest AP		1				

Split Series

Split image on series as separate series.



Right-click the exam, which applies Split Series, and click 'Split Series'



Click the image to be split on Series List

Select image to be split

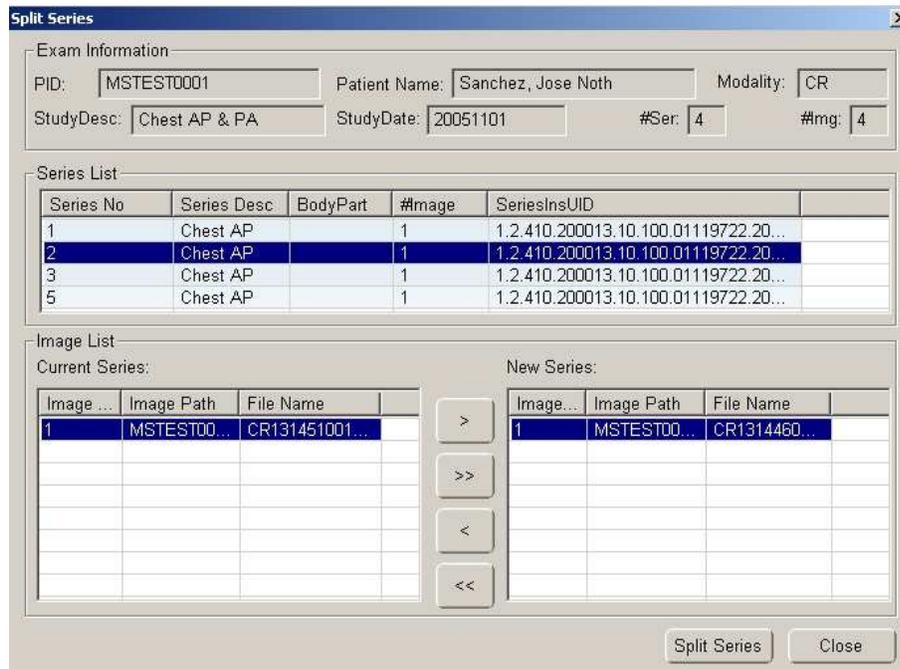
- Click the image to be split on Image list
- Click '>' (Click '<' to release)



(Click 'Shift or CTRL' for multiple selection)
(Click '>>/'<<<' to appoint/release all)



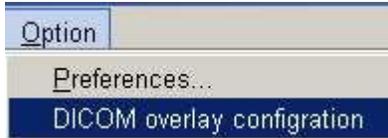
Click 'Split Exam'



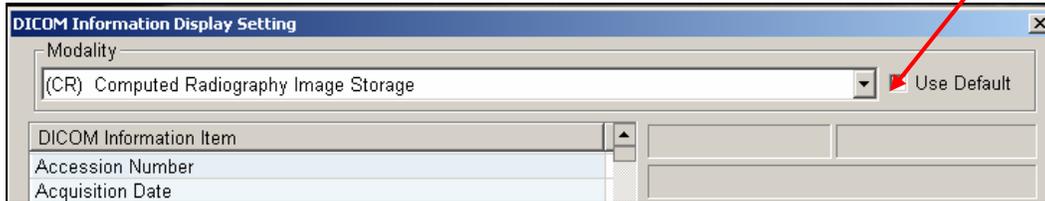
Split image on series as separate series.

Information Display Configuration

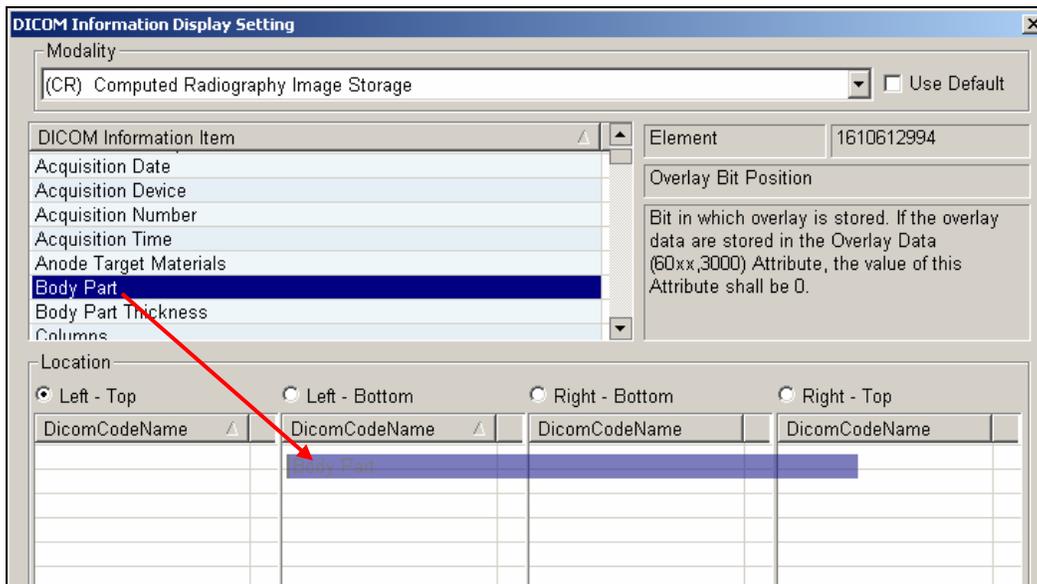
1. If you wish to change the information that is displayed on the image, select **DICOM Overlay Configuration** from the **Option** menu.



2. Uncheck the **Use Default** box.

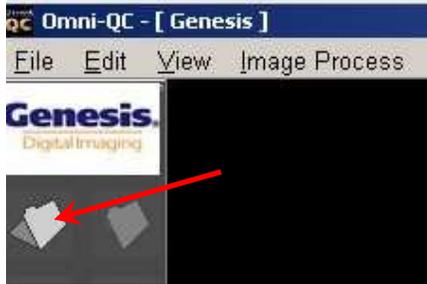


3. From the **DICOM Information Item** selection, click and drag the desired information to any of the four locations (Left - Top, Left - Bottom, Right - Bottom, Right - Top). *(*Note: Be sure to click on the title of the item you wish to move. To select multiple items, click the empty space next to the item and drag the mouse).*

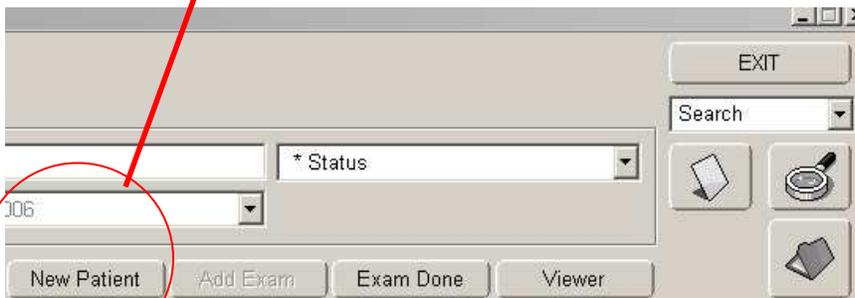
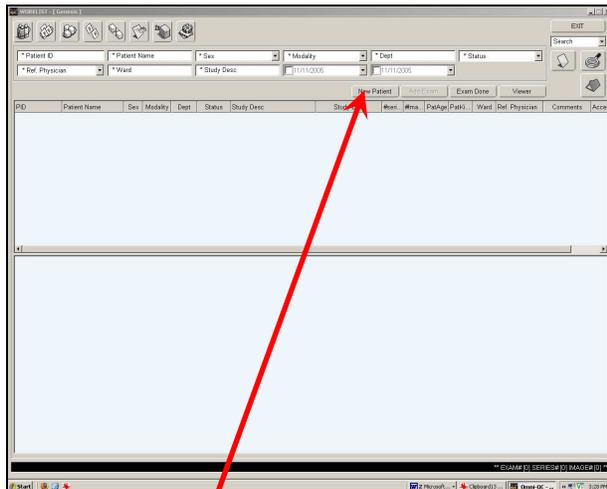


Start a New Scan

1. When starting from the Viewer, from the tool bar on the left, click on open folder icon  to open the work list. When starting from the Worklist go to step 3.



2. Work List will be displayed
3. Click on the **New Patient** button.



4. Enter the patient's information. (***Note: All fields marked with an asterisk (*) are required.**)

New Patient

Patient Information

* Patient ID: 1234567890

* Last Name: Doe

* First Name: John

Middle Name: E

* Sex: M

* DOB (MM/DD/YYYY): 7/7/1977

Study Information

Study ID: []

Accession Number: 2005111116312646

Study Description: []

Clinical History: []

Contrast / Bolus Agent: []

Referring Physician

Last Name: []

First Name: []

Middle Name: []

Select Referring Physician Name: []

Series Information

Series Description: []

Image Information

kVp: []

mAs: []

Image Description: []

Acquire Image

Cancel

5. Under the **Referring Physician** heading, enter the information of the referring physician. After the first time this physician's name is entered, it will continue to appear as an option in the **Select Referring Physician Name** drop-down menu.

Referring Physician

Last Name: Doctor

First Name: Joe

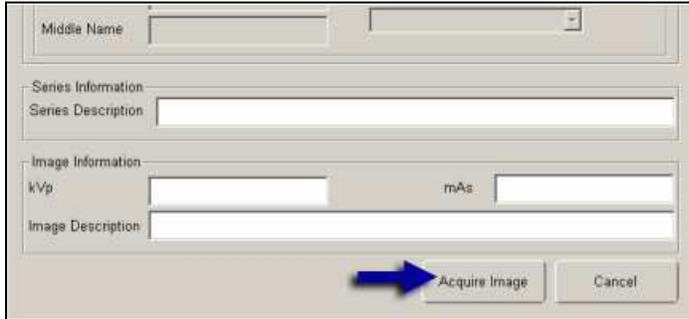
Middle Name: []

Select Referring Physician Name: []

Select Referring Physician Name

Doctor, Joe

6. Click on **Acquire Image** to launch scanner interface.



A screenshot of a software dialog box titled "Acquire Image". It contains several input fields: "Middle Name" (with a dropdown arrow), "Series Information" (with a "Series Description" field), "Image Information" (with "kVp" and "mAs" fields), and "Image Description". At the bottom right, there are two buttons: "Acquire Image" and "Cancel". A blue arrow points to the "Acquire Image" button.

7. When prompted with "**Ready for scanning**," choose your anatomical area and proceed by properly inserting the cassette into the scanner. (For proper operation, please refer to your Kodak/Orex user manual.)

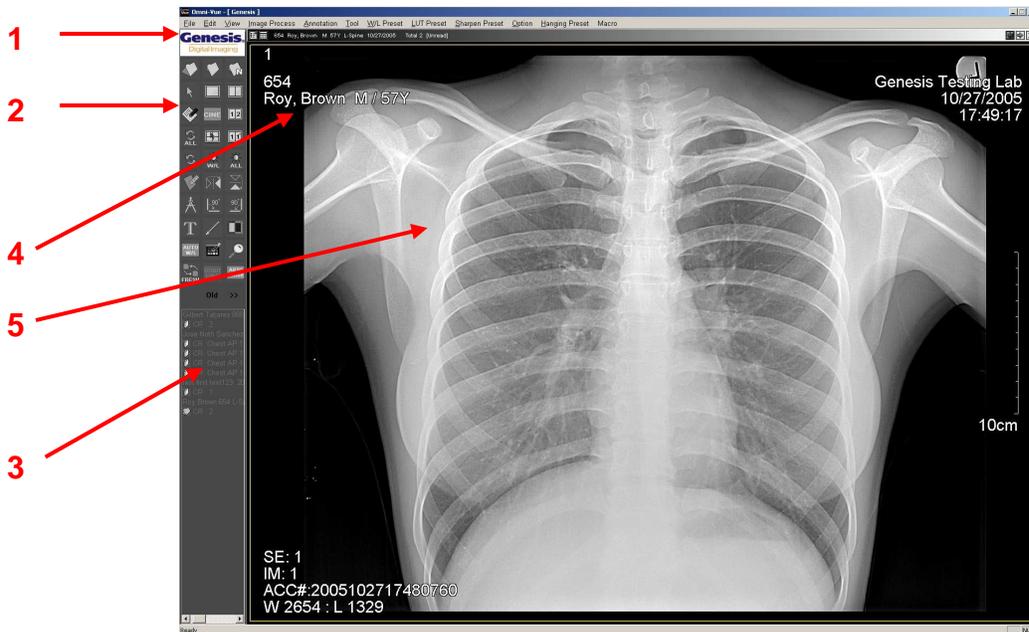


8. Upon completion of scan procedure, click on the **Exit** door symbol to launch Omni-QC Viewer.



9. Omni-QC Viewer is displayed

Display Window

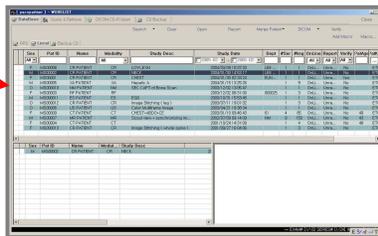
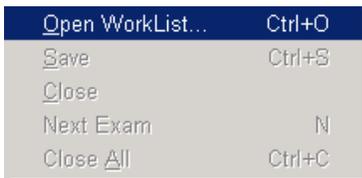


- (1) Menu List (File, Edit, View, Image Process, Annotation, Tool, W/L Preset, Option)
- (2) Menu Icons
- (3) Exam List: Displays open exams and series
- (4) Patient information
- (5) The Image

Open Worklist



Or select **File** from Menu List and Click on **Open WorkList** (Ctrl+O)



Exam Close



Or select **File** from Menu List and Click on **Close**

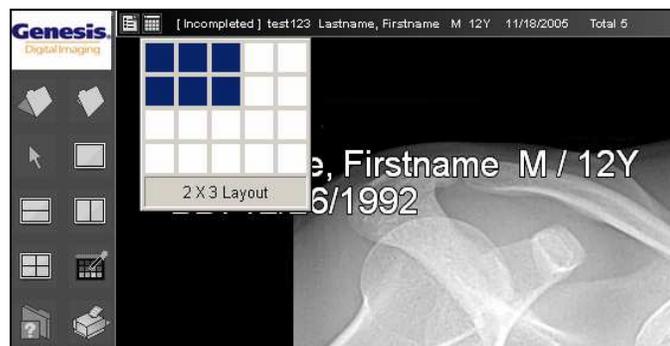
This function closes the current displayed study. Or select **File** from Menu List and Click on **Close All** (Ctrl+C) This function will close all open studies.

Image Layout & Viewing Options

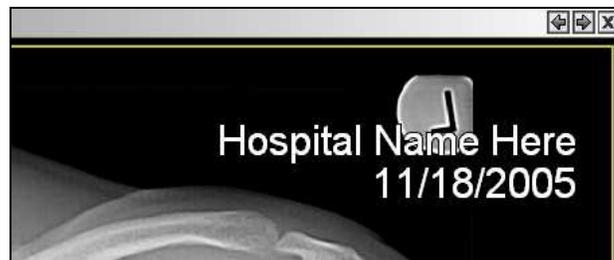
OMNI-QC supports four split view modes (Non, Horizon, Vertical, 2 by 2) and 8 view modes such as Series Layout, Chest CT View, Compare View, Stack View, etc.



In order to view multiple images at once, click the **Tile** button to change the layout.



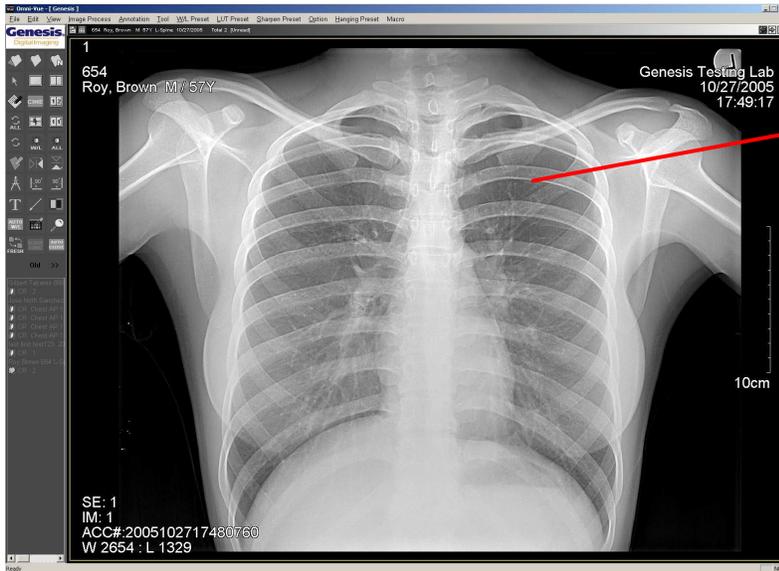
When viewing images one at a time, click the arrow buttons in the upper right-hand corner to advance images.



Pixel View



Displays pixel value and coordinates of selected location. Click on the icon and move your mouse over the image and Hounsfield Unit will be displayed.



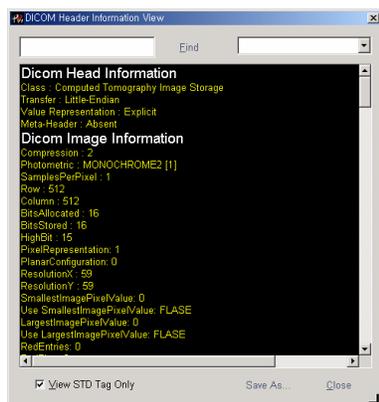
X:181 Y:175 Hounsfield Unit :10

DICOM Header View



Or click *View*→*DICOM Header*

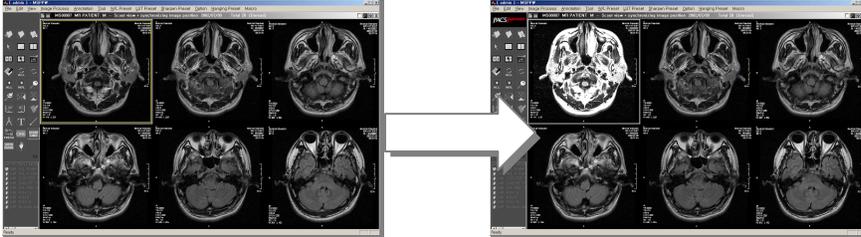
This function displays DICOM Header information.



Window Level



Click *Image Process* → *Window Level* and cursor will be changed to W/L. Click the image and drag to the left and right, window level value will be changed. Short-cut key 'W' to select.



Contrast & Brightness

To change the contrast of the image, **right click** with the mouse and move the **W/L** icon **left** (high contrast) and **right** (low contrast).



To change the brightness, **right click** with the mouse and move the **W/L** icon **down** (brighter) and **up** (darker).



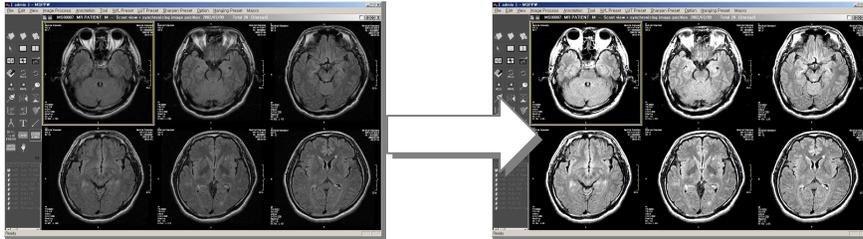
To apply any of these settings to ALL images, press the **All Window Level** button, and use **left click** when moving the mouse.

Window Level all



Click *Image Process* → *Window Level* and cursor will be changed to W/L. Click the image and drag to the left and right, window level value will be changed.

OMNI-QC supports window level all function by right-click drag.



Reset



Or click *Process* → *Display Original* and click the icon on toolbar.

This function will return the selected image to its original setting prior to any modification

Reset All



Or click *Image* 'Process → Display All Original' or click the icon on toolbar.

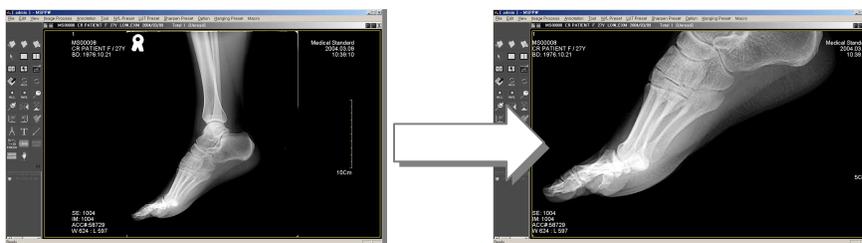
This function will return all the images to their original setting prior to any modification

Zoom



After click *Zoom* button, click and drag the image where you wish to see. If there are multiple images, select all (Ctrl + A) and Zoom in/out all the images.

(Short-cut key: Z)



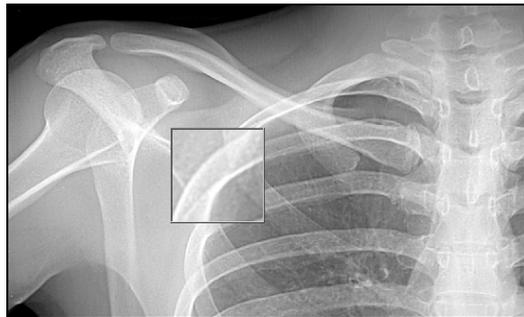
Magnify Glass



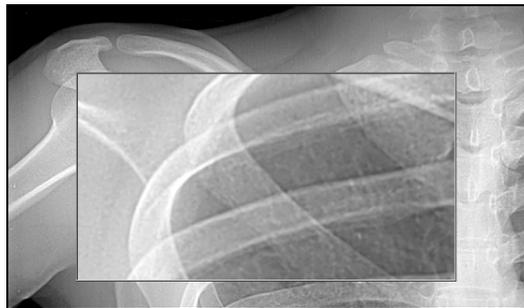
- Shift + Mouse** Drag Adjustment of magnifying glass
- Ctrl + Mouse** Drag Magnify/Reduction magnified image
- Alt + Mouse** Drag Adjustment of W/L

To magnify part of an image, first click on the **Magnify Glass** button.

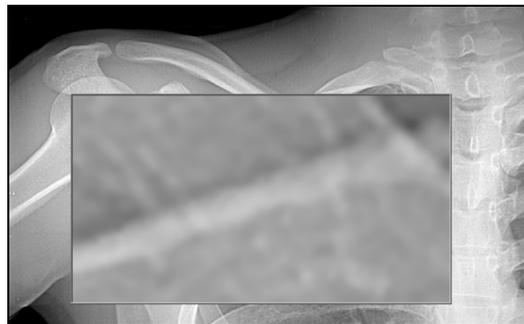
The magnifying glass will initially appear as shown below.



To change the size of the magnifying glass, hold **Shift**, click and drag the mouse to the desired size.



To change the zoom within the magnifying glass, hold **Control**, click and drag to the desired intensity. Drag **up** (lower magnification) and **down** (higher magnification).



Flip/Rotate Images

To rotate or flip images, use the corresponding buttons (**Flip Horizontal**, **Flip Vertical**, **Rotate CW**, **Rotate CCW**).



Flip Horizontal (Image Process → Flip Horizontal or click the icon)



Flip Vertical (Image Process → Flip Vertical or click the icon)



Rotate CW (Click 'Image Process Rotate CCW')



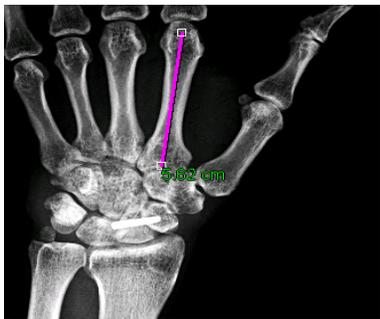
Rotate CCW (Image Process → Rotate CW or click the icon)

Measure

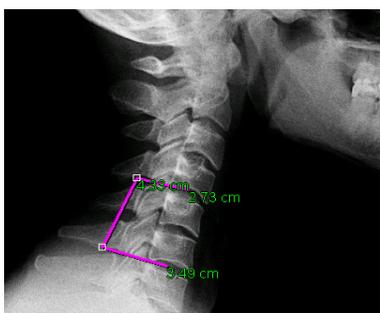


Tool Measure or (Short-cut key: M)

1) Length measurement: Drag the mouse to measure the length of image.



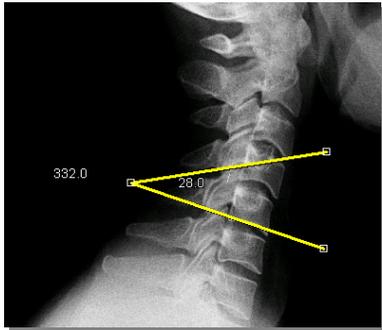
2) Measurement between two lines: To draw the line, click the short-cut key 'E' and measure the length between two points.



Angle



To measure the angle, click *Tool* → *Angle* or. (Short-cut key: A)
Drag the mouse on the image where you wish to measure.



Panning



Panning image moves to another part. After click the Panning button, click the image and drag to move the image. (Short-cut key: P)

Inverse

Right-click on image. Click Inverse

Or click on the icon.



Image Stitching

- 1) Open Series from Worklist
- 2) Change Display setting to show all images in series
- 3) Click Tool ---> Select Spine Image



- 4) Select image by order. Following message will be appeared on the each image



- 5) Click Tool->Image Stitching

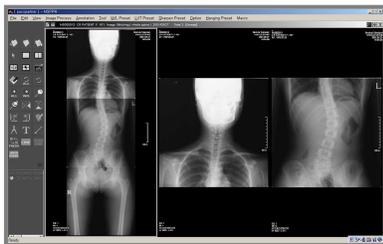


6) Adjust image using following menu



- Auto: Auto stitching.
- Reset: Recover to beginning.
- Move Up: Move the image upward
- Move Down: Move the image downward
- Move Lt: Move the image to the left
- Move Rt: Move the image to the right
- Crop: Crop the image
- Save: Save the image and close edit window

6) Click Save



7) Stitched image will be added to the series

Save & Auto Send

To save the image with all the changes and send to a destination, click on this icon from the tool bar.



Clicking **Exam Done** will automatically send the images to the specified recipient(s). The progress bar shown below will appear, followed by a confirmation notice.

DICOM Send must be configured prior to this step. Refer to “**Configuring DICOM Send**” at the end of this chapter.

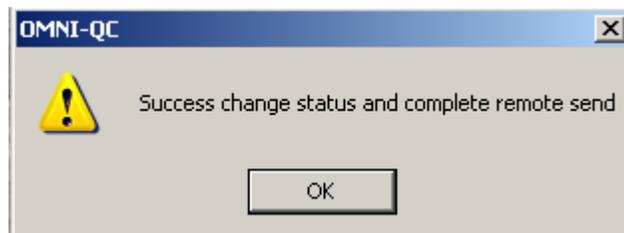
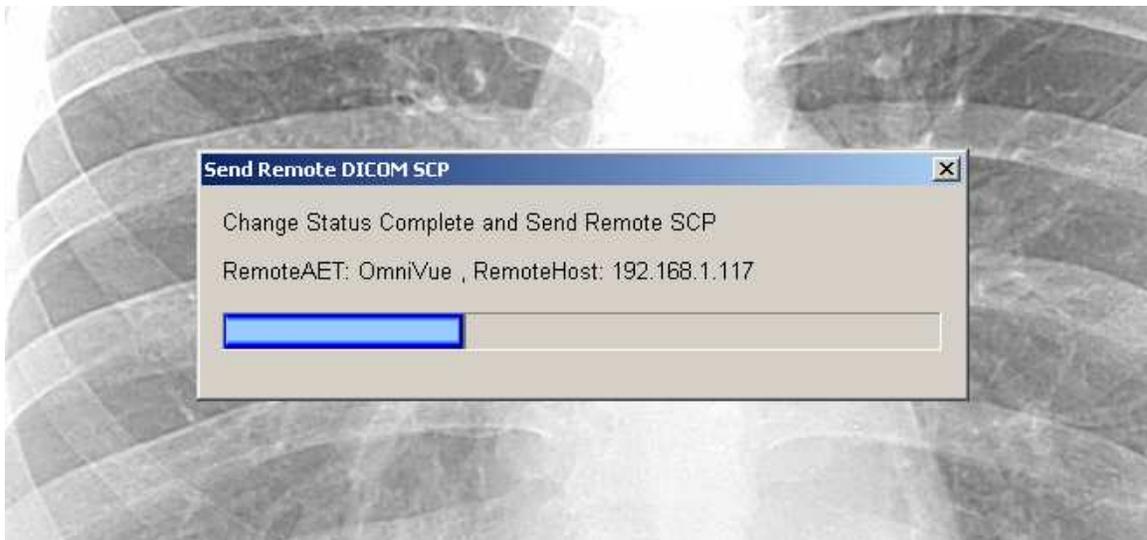


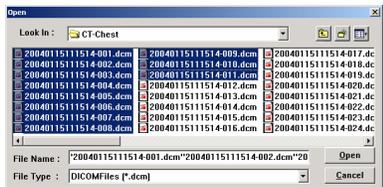
Image File Open (DICOM, Non-DICOM)

DICOM File Open

1) Click File->Open DICOM File

Open DICOM File...

2) Select the file to be opened and click OK (Multiple selections with CTRL or SHIFT)



Non-DICOM File Open (JPG, BMP, TIFF)

Click File->Open Non-DICOM File

Open Non-DICOM File...

Select the file to be opened and click OK (Multiple selections with CTRL or SHIFT)

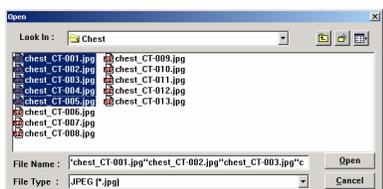


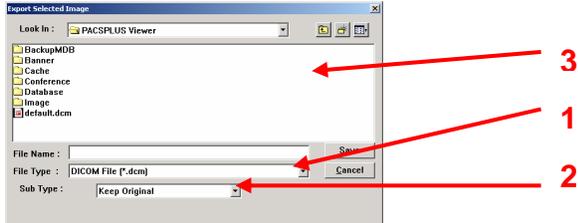
Image File Export

Images can be saved as DICOM, JPEG, BMP or TIFF.

Select the whole image or part of image and click File->Export.

Export...

Export Window



1. Select format to be converted
2. Select compression mode in Sub Type.
3. Select the location and click Save.

Compression ratio value

- A. Keep Original – Transmit the original image
- B. Uncompress – Uncompress and transmit original image
- C. Lossless JPEG – Transmit Lossless compression mode ($\frac{1}{2}$ ~ $\frac{1}{4}$ of original image)
- D. Lossy (Minimal, Mild, Moderate, Severe, Very Severe) – Transmit lossy compression mode.

Image File Import

Open an image by DICOM File Open or Non-DICOM Open and click File->Import.

Import...

Type in the information

Database: Select Local or Conference Folder

Patient Information: Input patient information

Study Information: Input exam information

Series Information: Input series information

Applied Range: Select the image to be imported (Selected Images, All Images)

Window Level: After open it in OMNI-QC and select W/L (Current Value) or Image W/L (Original Value)

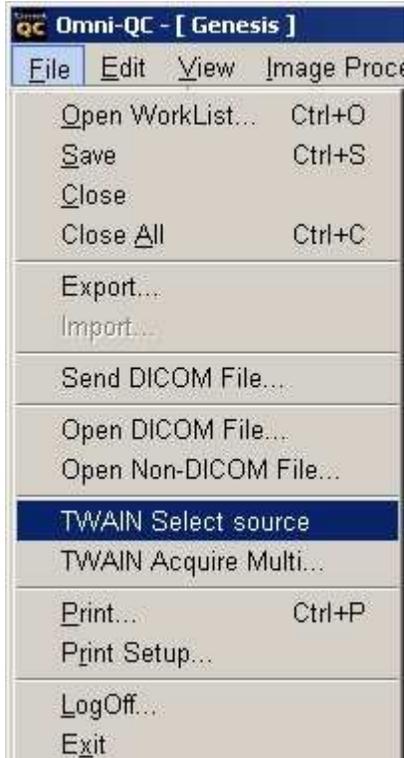
Click OK to finish

Twain Driver Support

Using external twain drivers, you can control film digitizers and acquire film or paper images.

How to Use

- 1) Click File → Twain select source from top menu.



- 2) Select TWAIN driver.
- 3) Insert film at the digitizer.
- 4) Click File → Twain Acquire Multi.
- 5) Run External Twain program.
- 6) Scanned image is display on image window of Omni-QC.
- 7) Click File → Import from main menu.
- 8) Type patient, study and series, etc.
- 9) Click OK to store it to the local database of Omni-QC.
- 10) You can find imported image in Worklist window of Omni-QC.

W/L Preset

Adjust window level easily with registration of short-cut key.

1) Adjust W/L and click 'W/L Preset→W/L Preset'



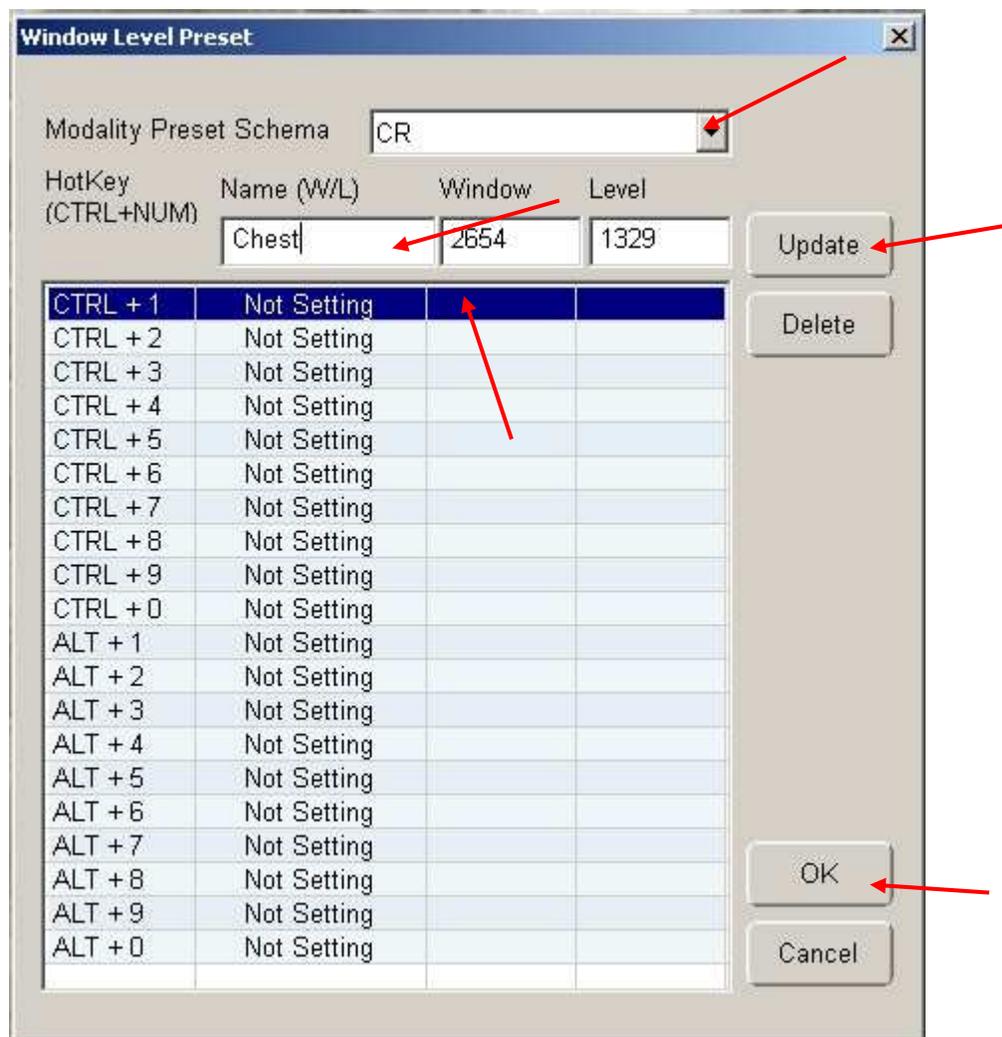
2) Modality and W/L value will be input automatically.

3) Click the short-cut key

4) Type in name "Chest"

5) Click "Update"

6) Click "OK" to register



Re-Arrange Processing

Arrange the sequence as new.

Re-Arrange Image (Auto)

Click Tool->Rearrange Image

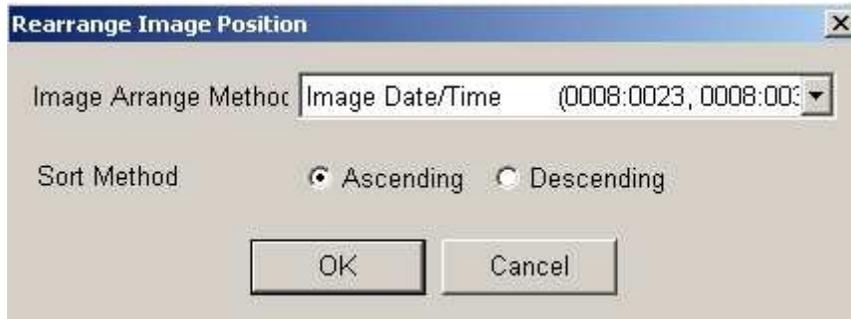


Image Arrange Method: Acquisition Date/Time, Image Date/Time, Image Number

Sort Method: Ascending, Descending

Rearrange Image (Manual)

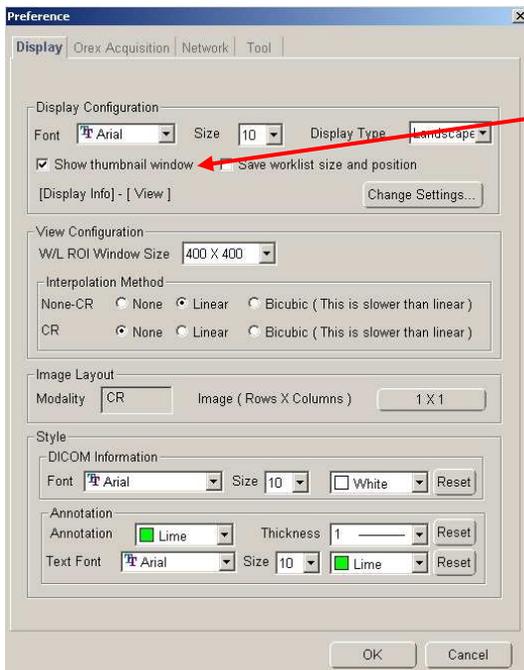
- 1) Click Tool->Rearrange Image to change the mode of Rearrange Image. The rim of image will be changed to the blue color.
- 2) Click the image to change with green color.
- 3) Insert between two images. If you move the cursor between two images, White bar will be created and click to insert.
- 4) To change the location with another image. Move the cursor on the image, which you wish to change, and the rim will be red color and click to switch the location.

Thumbnail Window

Thumbnail window is not configured by default. If you want to use thumbnail window, please configure Thumbnail window as described below.

How to Configure Thumbnail Window On/Off

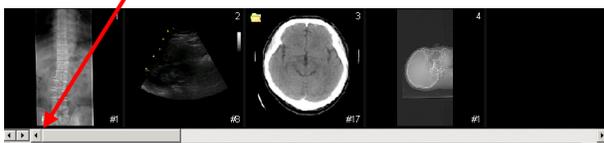
- 1) Select Option -> Preference -> Display
- 2) To use Thumbnail window on image display window, **check** Show Thumbnail window from Viewer tab or uncheck to not use the window.



How to Hide/Show Thumbnail Window

- 1) Open exams from Worklist window.
- 2) Thumbnail image window is displayed when you move the cursor to the bottom of image display window and hides when you move the cursor away.
- 3) Thumbnail image window displays yellow opened mark on opened series or exams
- 4) Drag thumbnail image and drop into display window

Layout of Thumbnail Window may be modified by clicking on “<” or “>” button

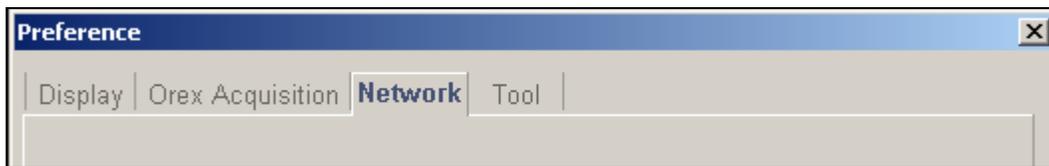


Configuring DICOM Send

1. In the **Option** menu, select **Preference**.

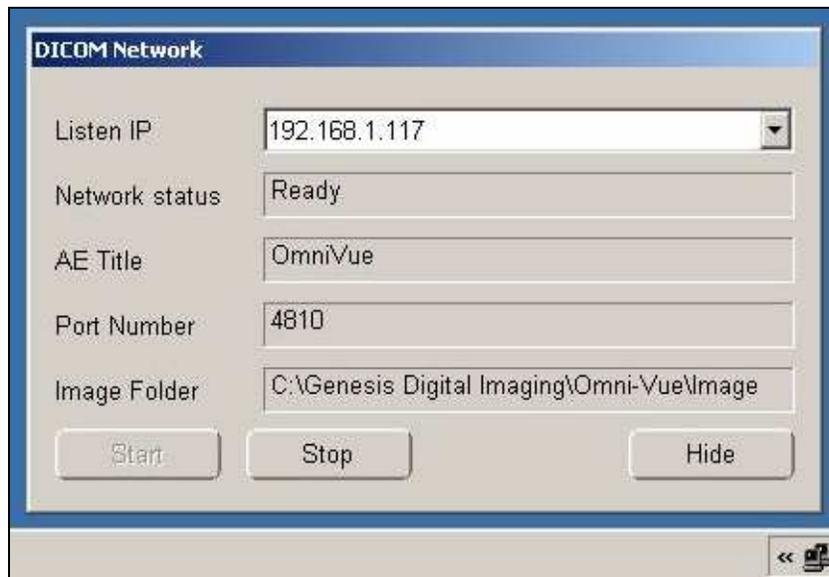


2. Open the **Network** tab.



3. Click the **Add** button to add a recipient.

4. In order to add a computer with Omni-Vue as a recipient, obtain the following information from the workstation that will be receiving the images. Double-click on the computer icon to obtain this information:



5. Enter the information as shown in the example below, and click **Add**.

The 'Remote Network' dialog box contains the following fields and values:

- AE Title: OmniVue
- HostName: 192.168.1.117
- Port: 4810
- Description: Dr's office (optional)
- NickName: (optional)

Buttons: Add, Cancel

6. Once this information has been entered, you may select the check box of the recipients you wish to automatically receive the images. **(*Note: Be sure to check the box ONLY if you wish for this computer to receive images EVERY time you complete an exam.)**

Remote				
AutoSend	AETitle	HostName	Port	Desc
<input checked="" type="checkbox"/>	OmniVue	192.168.1.117	4810	Dr's office (...)

Manual DICOM Send

1. From the Worklist, choose the patient whose images you wish to send by right-clicking on his or her information. Select **Send DICOM**.

PID	Patient Name	Sex	Modality
666	Potter, Harry	M	CR
01132006	Souza, Kaiser	M	CR
127	Squarepants, Sponge Bob		
6543	Lector, Hannibal		

Open Exam
Send DICOM...
Merge Exam...

2. The **Send Exam** window should appear as shown below. Select the desired destination from the list. Click **Connect Test** to confirm a working connection between sender and recipient.

Send Exam

Select a local IP

Select a destination remote host

	AETitle	HostName	Port	Desc	NicNa...
	OmniVue	192.168.1.107	104	Dr's office (...)	(option...
	OmniVue	192.168.1.117	4810	Dr's office (...)	(option...

Compress

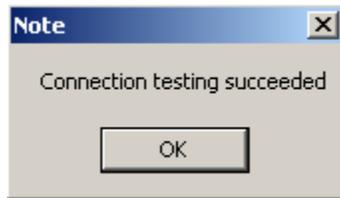
Connect Test

Send

Stop

Close

3. If a connection exists, the following window will pop up to confirm.



4. To proceed with sending, click the **Send** button.

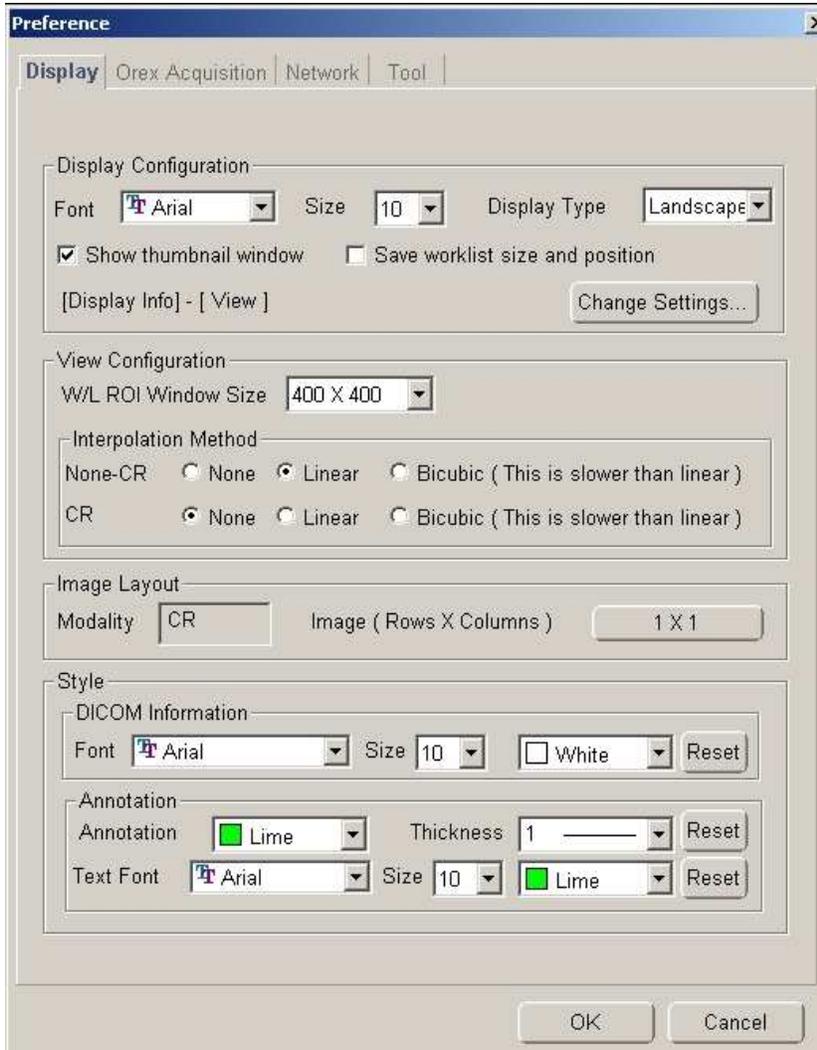
5. If the Connection Test fails, the following window will appear. Check the recipient's information to be sure it has been correctly entered.



Display Preferences



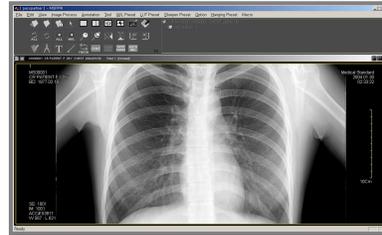
Display



Screen Font: Font used in Omni-QC.

Display Type:

- A. Landscape: The toolbar will be displayed on the left (Left image)
- B. Portrait: The toolbar will be displayed on top (Right image)



Show thumbnail window: Activate Thumb Nail Window. Refer to Chapter 2: How To Use Omni-QC– Thumbnail Window.

Worklist position save and restore: When checked, Omni-QC will save current Worklist position.

Window/Level ROI Size

Set size of preview window when Window Level is adjusting. (Restart OMNI-QC to apply)

Interpolation Method

To apply interpolation (anti-aliasing) functions to different modalities.

None: Do not apply interpolation on image.

Linear: Apply linear interpolation on image.

Bi-Cubic: Apply more linear interpolation on image.

DICOM Information

Change default font settings for DICOM information

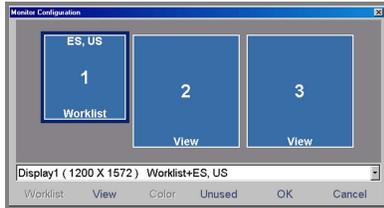
Annotation

Appoint color, line thickness and font to be used in Annotation

Dual Monitor Display Setting

Note: *Multi Monitor setting must first be set in Windows prior to the following.*

Click “**Change Settings**” to display Monitor Configuration window (below).



To designate monitor, you must select monitor and click on one of following buttons.

Worklist: Designate Worklist monitor

View: Designate view monitor

Unused: Disable selected monitor

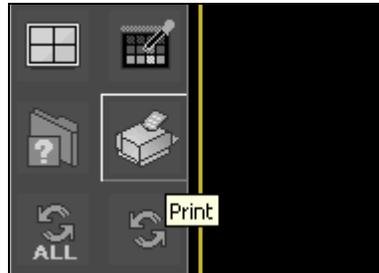
Chapter Three

Applications

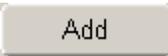
Adding a DICOM Printer

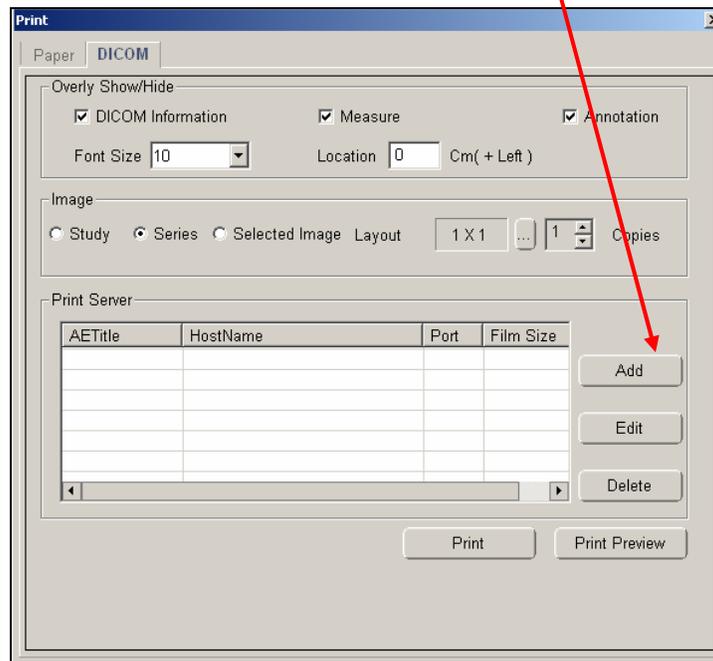
Note: You must first have an image on file and selected before adding a printer.

1. Click the **Print** button to open the Print window.



2. Choose "**DICOM**" tab for DICOM Printer.

3. The first time you print an image, you will have to  a printer.



4. Complete the form with your printer information. Consult your printer manual, as this information will be specific to your particular printer. See below for an example.

Dicom Print Setup

Dicom Print Server

AE Title Host Port

Film Session

Medium Type Destination

Magnification Priority

Orientation Film Size

Print Type Trim

Density

Border Empty

Min Value Max Value

Printer Server Configuration (See You're Print Server Manual)

Configuration(LUT)

Annotation

Real Size

Width Height

OK Cancel

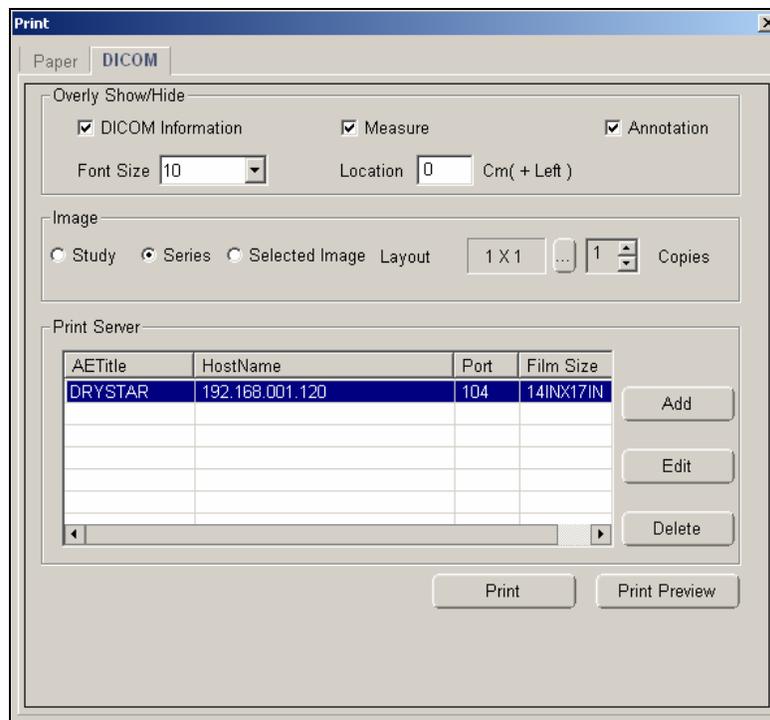
5. You are now ready to print.

Printing and Printing Options

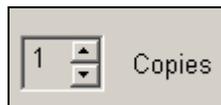
1. Highlight an image and click the **Print** button.



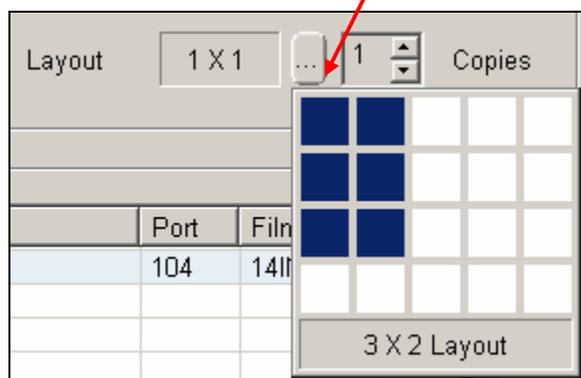
2. The following box will open, allowing you to change your printing options.



3. To change the number of copies, click the up and down arrows next to **"Copies."**



4. To change the print layout format, click on the  button and drag the arrow to your desired layout.



5. Click **Print Preview** to view the selected layout.

6. Select the printer you have just installed in the Print Server box, and click **Print**.

Print Server			
AETitle	HostName	Port	Film Size
DRYSTAR	192.168.001.120	104	14INX17IN

Note: You also have the option of printing to a paper printer. To use a paper printer, click on the Paper tab in the Print window. You must have all the proper drivers installed on your computer.

Chapter Four

Appendix

Tool Bar Icons

File Management



Open Work List



Close Image



Arrow (Default Mouse pointer) **[Esc]**

Display Management



Single Image



Two Image Display - Horizontal



Two Image Display – Vertical



Four Image Display- 2 by 2



Display Original



Display All Original

Image Management



Window Level **[Shift + W]**



Window Level All



Flip Horizontal



Flip Vertical



Rotate CW



Rotate CCW



Zoom In/Out **[Shift + Z]**



Magnifying Glass **[Shift + G]**



Measure **[Shift + M]**



Angle



Inverse



Pan [Shift + P]

Print Management



Printer Launch

More Icons



DICOM Header View



View Pixel Value