




# Quick Reference Guide

Philips iSite Radiology – Version 3.6

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[www.philips.com/isitepacs](http://www.philips.com/isitepacs)

Active Heartbeat monitoring and technical support 24/7

For help with iSite Radiology, click  or call 1 650 293 2412 or 1 877 328 2808 (US, Canada)  
For additional technical support, please see back cover.

**PHILIPS**

## Key functions

| Enhance mouse cursor mode   | Function         | Wheel mouse  | 2-button mouse                  |
|---|------------------|--|---------------------------------|
|  | Adjust WW/WL     | Left click and drag  | Left click and drag             |
|  | Scroll/Cine      | Wheel scroll   | Up/Down arrows                  |
|  | Zoom             | CR: Wheel scroll<br>Series: Alt key + left click & drag  | Alt key + left click & drag     |
|  | Pan              | CR: Wheel scroll & drag<br>Series: Control key + left click & drag                             | Control key + left click & drag |
|   | Fast Cine        | Double wheel click   | Hold Up/Down arrows             |
|   | Expand           | Double left click  | Double left click               |
|   | Pop-up Menus     | Right click any image or series, timeline item, or the left margin                             |                                 |
|   | Vertical Rack    | Right click the left margin, select <b>Vertical Rack</b> from the pop-up menu                  |                                 |
|   | Edit Preferences | Left click the <b>Preferences</b> button from the iSite Radiology control strip                |                                 |
|   | Reports          | Right click exam in <b>Patient Worklist</b> or the <b>Timeline</b> , select <b>Show Report</b> |                                 |
|   | Load Prior Exam  | Left click an item in the <b>Timeline</b> or right click and select <b>Load Exam</b>           |                                 |

For advanced visualization mouse interactions and keyboard shortcuts, please reference leaflet foldout on back cover.

## Hot keys

| Default keystroke               | Action performed   |
|---------------------------------|--|
| F6                              | Toggles image overlays on and off  |
| F7                              | Loads the previous series from the exam when viewing expanded images   |
| F8                              | Loads the next series from the exam when viewing expanded images   |
| Arrows (Up/Down)                | Plain film images: Allows you to zoom in or out of the image at the location of the cursor.<br>Image series: Allows you to perform frame-by-frame review of the series in either ascending or descending order. Holding down the Up/Down arrow keys allows you to fast cine. |
| Page Up/<br>Page Down           | Single frame review for image series in ascending or descending order  |
| L                               | Holding down the "L" key while reviewing a series allows you to adjust the window width/level of a single slice instead of the entire series   |
| M                               | Toggles the measurement palette on and off   |
| C                               | Toggles the "play cine loop" feature on and off for image series   |
| 1,2,3...0                       | Allows you to cycle through the various preset window width/level settings for an image or series  |
| +/-                             | Increase/decrease cine speed   |
| Home/End                        | Go to beginning/end of stacked series  |
| Configurable keyboard shortcuts | Provides customization for keyboard shortcuts that are capable of mapping to the most common iSite Radiology functions via <b>User Preferences</b> . iSite Radiology 3.6 provides a list of default keyboard shortcuts upon upgrade.   |

For advanced visualization mouse interactions and keyboard shortcuts, please reference leaflet foldout on back cover.

## Behavioral changes and new features in iSite Radiology 3.6

iSite Radiology 3.6 contains many improvements and additions. Some of these features require additional privileges to be granted by your iSite Radiology administrator. Others require special attention because they affect default behavior. The most important changes are listed below.

1. Anonymization tool
2. Magnifying Glass tool
3. Step Zoom display
4. Pixel-to-Pixel display
5. True-Size support\*
6. Mammography support tools
  - a. DICOM grayscale presentation states display
  - b. Computer-aided detection (CAD) marker display
7. Conference presentation state
8. Additional hanging protocol wizard enhancements
9. Hanging protocol sequencing
10. Advanced Visualization tools

\* Important note: Diagnostic monitor pixel pitch must be configured properly in the machine preferences.

## Using your mouse to manipulate images and series

Expanded images and series: double left click.

Window width/level: left click and drag over an image to adjust WW/WL.

Enhanced mouse configuration:

- CT/MR: WW/WL, cine, zoom, and pan.
- CR: WW/WL, zoom, and pan.

Cine: use your mouse wheel to cine up and through series.

Fast cine mode: double click on the mouse wheel to initiate automatic fast cine mode with tactile speed and directional controls.

Zoom and pan: use your mouse wheel to zoom into plain film images. Click and drag the mouse wheel to pan.

Enhanced mouse configuration: toggle through options.

Advanced image manipulation: right clicking any image or series reveals a modality specific menu from which you can choose advanced image manipulation tools such as image filters, measurements, annotations, flip, rotate, invert, and many others.



## Logging on to iSite Radiology

The iSite Radiology **Logon** screen is accessed by clicking the iSite Radiology program icon.

For HIPAA compliance, you should log on using your own individual user name and password. This will also allow you to customize your own personal viewing preferences, folders, worklists, etc. Your institution might have multiple authentication sources. You may need to select the correct source from the **Logon** drop-down list.



## Controls and Patient Directory

| Close All | Patient Name                          | MRN      | Exam Date           | Patient Location |
|-----------|---------------------------------------|----------|---------------------|------------------|
| Query     | 4255450                               |          |                     |                  |
|           | ACPTI-ORTIZ, FRED                     | 20120401 | 11/4/1999 12:01:36  | DEMA             |
| ✓         | CT -; Acc: 4255450; Referring: Ura... |          | 11/4/1999 12:01:36  |                  |
| ✓         | MR -; Acc: 3007471; Referring: Ura... |          | 5/22/1999 13:43:05  |                  |
| ✓         | MR -; Acc: 3081210; Referring: Ura... |          | 2/24/1999 11:25:53  |                  |
| ✓         | CT -; Acc: 3742325; Referring: Ura... |          | 2/23/1999 15:30:50  |                  |
| ✓         | MR -; Acc: 3746393; Referring: Ura... |          | 2/18/1999 12:34:52  |                  |
| ✓         | CT -; Acc: 3674432; Referring: Ura... |          | 12/26/1998 20:29... |                  |
| ✓         | CT -; Acc: 3670727; Referring: Ura... |          | 10/26/1998 16:11... |                  |

## Patient Directory: designed for ad hoc searches

The **Patient Directory** allows you to perform queries for exams outside of your Filter criteria. Access the **Patient Directory** by clicking its icon in the **Folder List**.

### Patient Directory layout (see next page)

#### Area 1 – Sort and search fields

Enter criteria in any of the available search fields and click on the **Query** button to initiate your search.

#### Area 2 – Patient level listings

iSite Radiology returns a patient-based list of matching results. The results are

sorted by exam date and time. To sort the results of a search, click on the associated column headers.

#### Area 3 – Exam level listings

To view a list of available exams for a particular patient, click on a patient's name. To view the images associated with any exam, double click on the exam listing.

#### Area 4 – Exam listing displaying right click pop-up menu

Right click on the exam listings to access reports and other additional options.

## Patient Directory layout

The screenshot shows the Philips iSite Radiology Patient Directory interface. The interface includes a navigation pane on the left with icons for Patient Directory, Data, Statistics, and Study Linked. The main area displays a search query and a list of results. The search criteria include Patient Name (Apt1-ORTG, FRED), MRN (20120491), Exam Date (11/01/99 10:00:36), and Patient Location (DNVA). The results table shows exam details such as Modality (MR, CT), Accession Number, Referring Physician, and Exam Date/Time. A right-click context menu is visible over one of the exam listings.


Area 1 – Sort and search fields

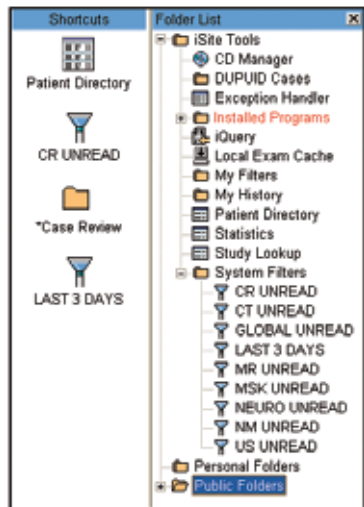
Area 2 – Patient level listings

Area 3 – Exam level listings

Area 4 – Exam listing displaying right click pop-up menu

## Shortcuts, Folder List, Filters

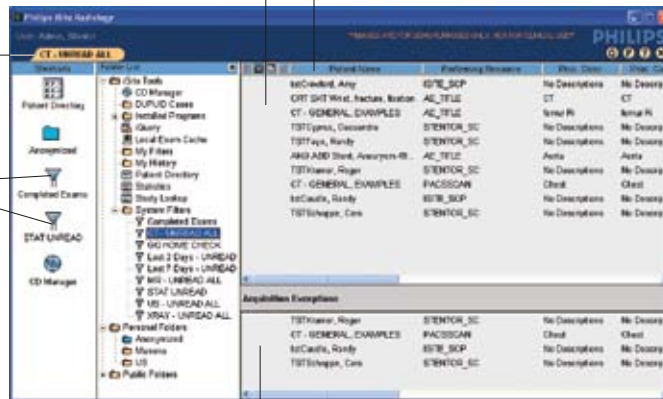
The **Shortcuts** bar and **Folder List** are gateways to patient and exam management tools. Add a shortcut by right clicking any tool and dragging it from the **Folder List** to the **Shortcuts** bar. Add exam links to **Personal Folders** by dragging and dropping exams into folders. You can use filters to generate custom reading worklists based on certain criteria such as modality, date, location, procedure code, or body part. Click **System Filters** or **My Filters** in the **Folder List**, or create a personal filter by clicking **User Preferences** .



## Using reading worklists

Folder tab displaying filter name

Filter shortcut icons



**Exam-based reading worklist:** double click listings to view exams. Right click for reports and additional options.

**Configurable column headers:** click a header to sort the worklist. Drag the headers to organize the list. Right click to add and remove headers.

Exam-based acquisition exceptions list

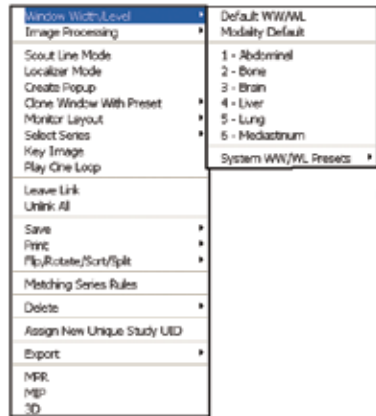
## Pop-up menus

iSite Radiology pop-up menus are always accessed by right clicking. These menus provide extra functionality in worklists, timelines, diagnostic exam racks and in your diagnostic monitors. Pop-up menus are modality sensitive and context sensitive.

An MR pop-up menu will have different options than a CR pop-up menu.

### Image pop-up menu features

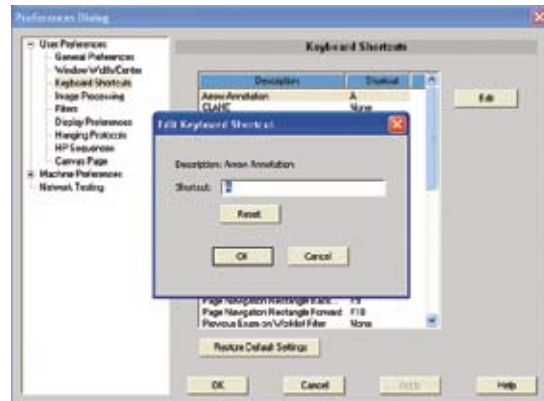
- Measurement tools – Ruler, Angle, ROI, Point Value, Freehand ROI, etc.
- Annotation tools – Line, Triangle, Circle, Text, Arrow, Freehand, etc.
- Image processing – Invert, Edge Enhance, Edge Detect, Median Filtering, CLAHE
- Multi image mode – 1:1, 1:2, 2:3, 3:3, 4:5, etc.
- Select series/Relevant exam
- Monitor layout
- Flip/Rotate/Sort



## Preferences

iSite Radiology is highly customizable, allowing users to specify many aspects of exam reading:

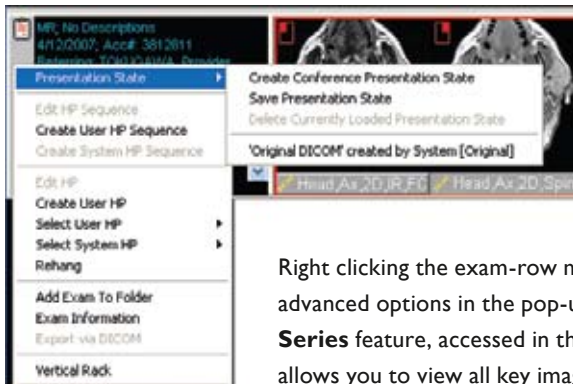
- Window width/levels
- Monitor layout
- Worklist filters
- Auto-logout time
- Overlay font size
- Series cine resolution
- Main exam display
- Canvas page mode
- User password
- Workflow options
- Keyboard shortcuts



When you log on, iSite Radiology will automatically load your personalized settings. To set preferences, click the **P** in the iSite Radiology control strip. Preferences set in the **Preferences** dialog box will apply globally to all exams you view in iSite Radiology.

## Exam Racks

The **Exam Racks** display exam images and series in thumbnails from which images displayed on the diagnostic monitors will be chosen. The racks can be laid out horizontally or vertically. Images and series in the racks can be quickly loaded into your diagnostic monitors and expanded into independent larger windows by double clicking on them.



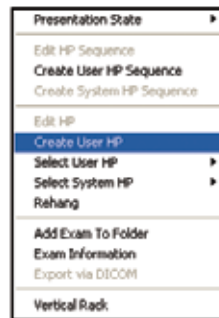
From left to right, the exam racks are composed of the exam-row margin, exam summary window and the diagnostic thumbnail images.

Right clicking the exam-row margin provides access to advanced options in the pop-up menu. The **Key Image Series** feature, accessed in the general **Preferences**, allows you to view all key images in a single stack.

## Hanging protocols: precise exam-hanging control

Hanging protocols are rules that allow the user to control exactly how exams of a certain type are displayed on the diagnostic monitors. These rules are based on modality, a combination of modality and body part, or exam codes. For example, you can create a hanging protocol for all MRs or just for MR brain exams. You can also specify WW/WL, clones, invert, and other image controls.

iSite Radiology uses personal user hanging protocols and public system hanging protocols. To apply existing hanging protocols or to create new ones, right click the exam-row margin. Hanging protocol options are the second section in the resulting pop-up menu, as seen in the image above.



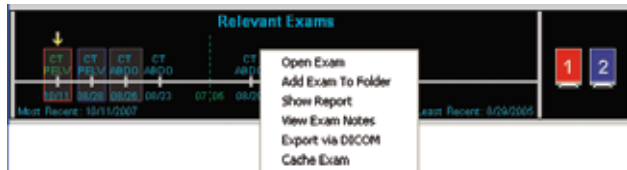
iSite Radiology supports hanging protocol sequencing in which users can create a sequence of hanging protocols with different layouts that can be quickly toggled through using keyboard shortcuts.

## Interactive timelines: quick access to exams

Interactive timelines are a fast, intuitive way of accessing a patient's clinical history. Each exam is represented by a modality type, body part, and date. Exams which do not have associated images (such as scheduled exams) are displayed with an "X."



Detailed exam information is accessed by hovering your mouse over an exam listing.



Exams can be opened from the timeline by left clicking the exam listing. Other options are available by right clicking an exam listing, as seen above.

## Interactive timelines: legend of symbols and icons



Exams that have been loaded into the iSite Radiology canvas page are outlined by a grey box. Exams listed in green do not have a report associated with them yet.



Exams being displayed on your diagnostic monitors are outlined by colored boxes that correspond to the diagnostic monitor icons located between the two timelines. Here, the red exam is displayed on one diagnostic monitor and the blue exam is displayed on another.



The exam that you have selected from your worklist for reading is indicated by a yellow arrow. This exam is referred to as the "Main Exam."



These arrows, located in the upper right-hand and left-hand corners of the timelines, indicate that there are more exam icons off the screen. Click the arrows to scroll.

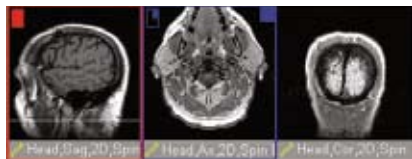


## Scout Line Mode

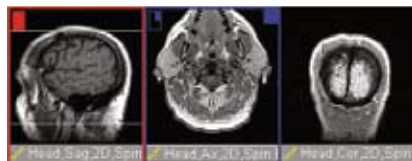
**Scout Line Mode** allows you to see the planar location of an image using another image within the same study as a reference frame.

To engage **Scout Line Mode**, right click that image/series and select **Scout Line Mode** from the pop-up menu or press F11. Scout lines will be displayed on the selected **Scout Line Mode** image/series as you move your mouse over other images of a different orientation.

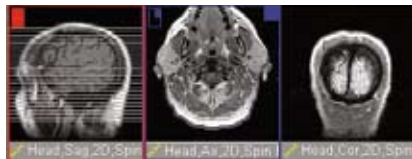
Three styles of scout line are available (Single, Bracket and All – shown at right) and can be set in the user display **Preferences** **P**.



Single scout line



Bracketed scout line

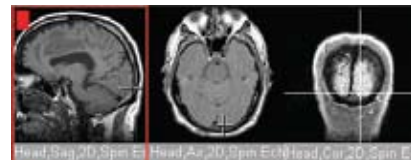
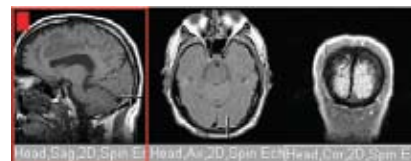


All scout lines

## Localizer Mode

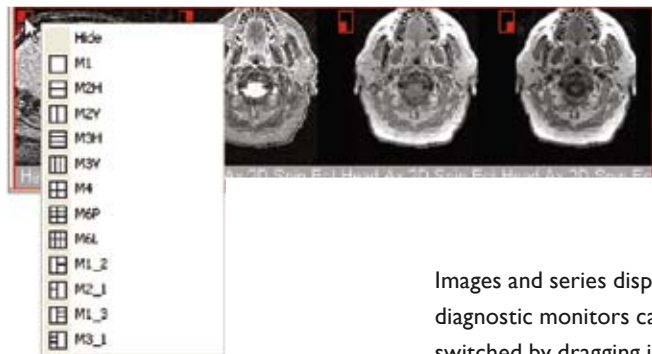
**Localizer Mode** allows you to pinpoint locations across an exam's series and to manipulate those series simultaneously.

To engage **Localizer Mode**, right click the series from which you would like to control all other series in the exam and select **Localizer Mode** or press F12. As you move the mouse cursor over this control image, corresponding crosshairs will appear on all other series, as seen above at right. Click and drag the mouse to simultaneously cine all other series, as seen to the right.



The user display **Preferences** **P** you set determine whether scout lines are displayed during this operation.

## Using Interactive Navigation Rectangles



Images and series displayed in your diagnostic monitors can be quickly switched by dragging images and series into the navigational rectangles or by dragging the rectangles themselves. You can quickly change the layout of your diagnostic monitors by right clicking the layout icon in the rectangle, as seen above, and selecting the layout you want from the pop-up menu.

### Interactive Navigation Rectangles






provide a visual indication of the images displayed in your diagnostic monitors. The color of the rectangle will match the color of the diagnostic monitor icon in the timeline.

## iSite Radiology with advanced visualization

### Start up

















1. In the exam rack, select one or more series by pressing and holding the Shift key then click on the desired thumbnails.
2. Right click on one of the selected thumbnail images and select one of the following options:
  - MPR, MIP, 3D

### Main functions and their icons in the toolbar

-  MPR (0 mm slab), Average Projection (> 0 mm slab).
-  MIP (variable slab thickness; CT – default 30 mm slab; MR & 3D RA - “entire volume”).
-  Open Task Guidance to create a curved MPR.
-  3D Shaded Volume Rendering. Whole volume and variable slab and classification presets.
-  Saves image as capture in iSite Enterprise.

While in advanced visualization, all modifications are available only during that session and will be lost unless captured. Image modifications made in either iSite Enterprise or iSite Radiology are not available in the advanced visualization view.

## Mouse interactions

| Icon  | Cursor  | Functionality                      | Mouse action   |
|---|---|------------------------------------|--|
|  |  | Scroll through images              | Press and hold the <b>left mouse button</b> , and drag on the view                           |
|  |  | Zoom                               | Press and hold the <b>middle and right mouse buttons</b> , and drag on the view <sup>†</sup> |
|  |  | Pan                                | Press and hold the <b>left and middle mouse buttons</b> , and drag on the view <sup>†</sup>  |
|  |  | Contrast – brightness              | Press and hold the <b>middle mouse button</b> , and drag on the view <sup>†</sup>            |
|  |  | Increase/decrease edge enhancement | In edge enhancement mode: press and hold the <b>left mouse button</b> , and drag on the view |
|  |  | Increase/decrease movie speed      | In movie mode: press and hold the <b>left mouse button</b> , and drag on the view            |
|  |  | Position the shutters              | Left click and drag at the borders of the image  |
|  |  | Resize the view                    | Left click and drag at the borders of the view   |

<sup>†</sup>“ViewForum” mouse convention. Mouse convention can be selected in advanced visualization main menu under: options/edit user profile.

For iSite Radiology mouse interactions and keyboard shortcuts, please reference leaflet foldout on front cover.

## Keyboard shortcuts

| Shortcut          | Icon | Cursor | Functionality   |
|-------------------|------|--------|---|
| ↑                 |      |        | Move slab backward  |
| ↓                 |      |        | Move slab forward   |
| ←                 |      |        | Decrease slab thickness   |
| →                 |      |        | Increase slab thickness   |
| F5                |      |        | Interaction mode:<br>– Scroll through image (up/down)<br>– Change slab thickness (left/right) |
| F6                |      |        | Interaction mode: roll  |
| F7                |      |        | Interaction mode: rotate in-plane   |
| F8                |      |        | Interaction mode: opacity level and width   |
| F11               |      |        | Toggle hide/display menu bar  |
| F12               |      |        | Toggle hide/display all view toolbars   |
| Pause/break       |      |        | Start/stop movie  |
| Ctrl + i          |      |        | Series information on a view  |
| Ctrl + arrow keys |      |        | Changing orientation of volumes   |
| +/-/*             |      |        | Zoom volume   |
| Ctrl + e          |      |        | Capture this image  |

For iSite Radiology mouse interactions and keyboard shortcuts, please reference leaflet foldout on front cover.

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| Belgium   | 0800-75423 (L)    | New Zealand   | 877-328-2808 (L) | Switzerland     | 800-8783-6867 (I) |
| Brazil    | 0800-8911888 (L)  | North America | 877-328-2808 (L) | The Netherlands | 0800-0232639 (L)  |
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I = International number L = Local number

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