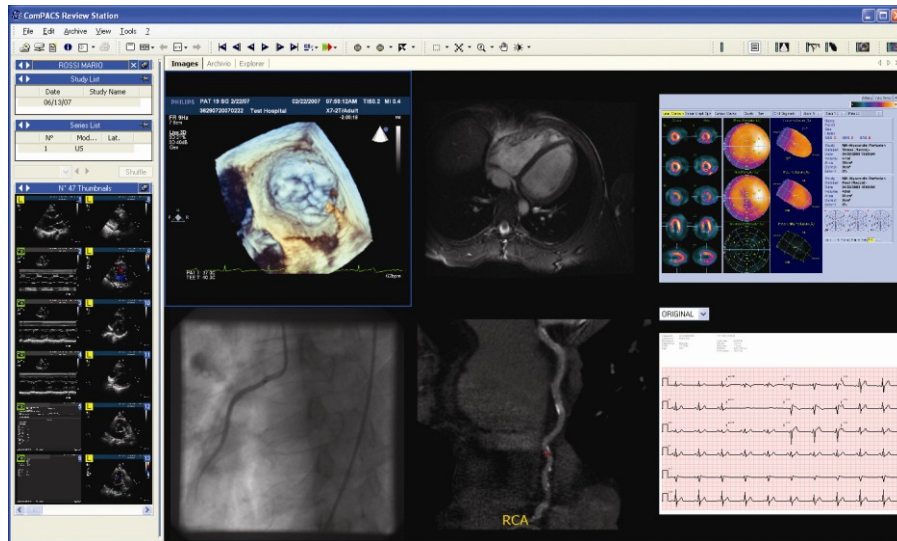




ComPACS® Workstation

The ComPACS Workstation is the user front end desktop interface of a ComPACS system. This is where users interact and control the many functions of ComPACS relating to image / loop playback, patient or study controls, data import and export, off-line analysis and reporting.



Access to Patient Databases

From the workstation, users can access all predetermined patient databases for their facility stored in a ComPACS Archive or in a third party DICOM PACS. Alternatively it is possible to directly import patient and study data from DICOM media or from different proprietary formats (Philips-Agilent® DSR-TIFF, Philips-ATL® DEFF, Aloka® Line Data, etc.). From these databases, users can search and retrieve individual studies or groups of studies while applying various filters to their search.

Image/ loop playback and review

Workstation controls are designed to be user-friendly with a combination of icon, menu or keyboard access depending on user preferences. Playback controls include such items as loop speed and direction, image layout as singular, user defined multi-image (1x2, 3x4, 2x2, etc) or multi-monitor, and multi-image synchronization. Stress echo protocol information is imported from the DICOM loops and interpreted for automatic processing.

Additionally, stacking capabilities for multi-series image formats such as MRI and CT are also supported. The appearance of each individual loop or image can also be controlled with such functions as; colorization, zoom and lens zoom, brightness and contrast in addition to various filters, edge enhancements and digital subtraction. All designed to assist the user in maximizing the diagnostic potential of the patient data.

Data Export and Anonymization

The user is able to apply various additional controls in exportation of studies in complete DICOM format to remote DICOM servers or locally to CD/DVD (with an embedded ComPACS® Lite Viewer) for sharing with other practitioners. In addition to DICOM exportation, individual images and loops can also be saved in more standard TIFF, JPEG or AVI formats, and printed to standard Windows® printers. In the process

of performing these various copy and export functions, if appropriate, images, loops or entire studies can be anonymized thus enabling interesting cases to be shared in rounds or presentations while maintaining the patient's confidentiality and HIPAA compliance.

Analysis and Reporting

The workstation can also access embedded and additional advanced post-capture analysis and reporting tools for various modalities (echo, IVUS, Nuclear Medicine, angiography). Please refer to the reporting and analysis modules datasheets for further information.

Main Features

- Multi-Modality review software (Ultrasound, Angiography, IVUS, MR, CT, Nuclear, EKG, etc.).
- Multi-Window display (up to 10x10) for simultaneous comparison of images and loops.
- Multi-Monitor display of images, reports and previews with custom monitor function assignment.
- Thumbnail display for series/images and image file preview.
- Brightness/Contrast control and automatic or semi-automatic image windowing.
- Mouse adjustable zoom, lens and pan controls.
- Extensive set of image filters (high pass, low pass, digital subtraction etc).
- Extensive set of color filters (negative, sepia, thallium etc).
- Unsynchronized or synchronized loop playback, speed control and sub-loop selection.
- Stress Echo protocol management.
- Conversion to single image formats (JPEG, TIFF, BMP) with cropping and anonymization.
- Conversion to AVI loops with trimming, cropping and anonymization.
- Automatic batch study conversion to multimedia formats and anonymization.
- Printout of selected images or of a ROI to standard ink-jet or laser printers.
- Automatic detection of DICOM media insertion/removal.
- Connectivity to ComPACS Archive or Server classes.
- DICOM Query/Retrieve for connectivity to one or more third party PACS.
- Explore folder function to extract DICOM files from file folders also in case of missing DICOMDIR.
- Complete access to all DICOM information and tags.
- Support for DICOM international character sets (English, Latin, Arabic, Japanese, Chinese, etc.).
- Supports uncompressed, JPEG lossy, JPEG lossless and RLE syntaxes.
- Support for proprietary formats and raw data (Philips-Agilent® DSR-TIFF, Philips-ATL® DEFF, Aloka® Line Data, etc.) with automatic conversion to standard DICOM.

System Requirements

ComPACS Workstation – Rev. 10.5

- Intel/AMD Dual/Quad Core processor.
- 1GB RAM or higher (2GB recommended).
- 10GB HDD space
- High resolution Video Card. Dual Monitor recommended.
- Ethernet 10/100/1000 Mbps adapter.
- CD/DVD drive.
- OS: Windows Vista/XP Professional with latest service packs.