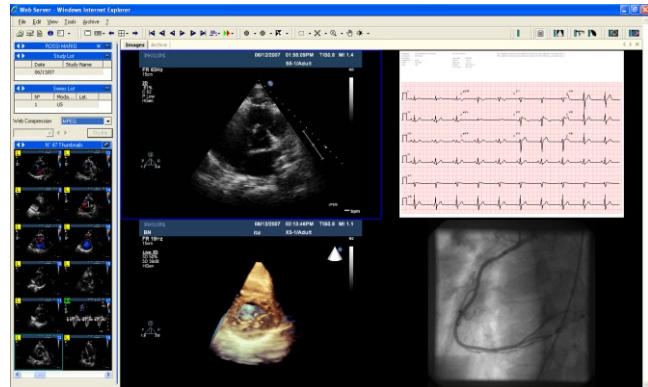
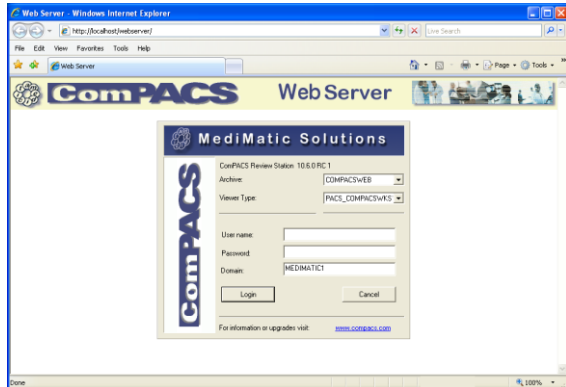




ComPACS® Web Workstation

The ComPACS Web Workstation is the user front end web interface of a ComPACS system. It exploits ActiveX and HTTP(S) technology to allow access to patient and study, DICOM information, data import and export, off-line analysis and reporting, all using a Microsoft Internet Explorer browser.



The web workstation provides the same user interface and functionality of the equivalent desktop ComPACS Workstation, facilitating in-site and off-site usage. Dynamically user defined compression levels (JPEG Lossy, MPEG4, etc.) for DICOM data reduces image and loop access time while still allowing access to fully uncompressed DICOM data when required.

Access to Patient Databases

From the web workstation, users can access all predetermined patient databases for their facility stored in a ComPACS Archive. 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

- ActiveX and HTTP(S) technology to allow access from a Microsoft Internet Explorer browser.
- 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.
- 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.
- 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 as well as MediMatic proprietary MPEG4 based syntax.
- 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 Web 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.
- Microsoft Internet Explorer 6 or higher.

MediMatic Srl, Viale Cembrano 4C, 16148 Genova, ITALY
Telephone: +39 010 3071634 Fax: +39 010 3074548
Email: info@medimatic.com - Web: www.medimatic.com

