Codonics Virtua OsiriX Viewer

Technical Brief

Overview

The Codonics® Virtua™ Medical Disc Publisher provides support for the OsiriX® Viewer for the Apple® Macintosh® platform as an optional DICOM viewer. The addition of this viewer allows existing Macintosh users to use discs created by Virtua with a 100% compatible Mac OS 10.5 (Leopard™) based viewer. OsiriX requires a Feature Key on Virtua to activate the viewer and installation on the SmartDrive.

OsiriX is image processing software dedicated to viewing DICOM images produced by imaging equipment (MRI, CT, PET, PET-CT, etc.) and confocal microscopy (LSM and BioRAD-PIC format). It can also read many other file formats: TIFF (8,16, 32 bits), JPEG, PDF, AVI, MPEG and QuickTime®. It is fully compliant with the DICOM standard for image communication and image file formats. OsiriX is able to receive images transferred by DICOM communication protocol from most PACS or imaging modalities (STORE SCP - Service Class Provider, STORE SCU - Service Class User, and Query/Retrieve).

OsiriX System Requirements

Validated operating systems:

- Mac OS 10.5 (Leopard) or later

Recommended hardware configuration:

- G4, G5 or Intel processor (Intel multi-core processors highly recommended for 3D!)
- 3 GB of RAM if you plan to open more than 800 images (CT & MRI, PET-CT)
- 5 GB of RAM if you plan to open more than 1500 images (multi-slice CT & PET-CT)
- 8 GB of RAM if you plan to open more than 3000 images (cardiac CT wih 4D Viewer)
- 1024 x 1280 pixel graphics (XVGA resolution monitor)
- CD-ROM drive (48x)

OsiriX Distribution

- OsiriX is a Mac OS X only application
- OsiriX is distributed under the GNU General Public License
- OsiriX source code is available for anyone

OsiriX Features

OsiriX has been specifically designed for navigation and visualization of multimodality and multidimensional images: 2D Viewer, 3D Viewer, 4D Viewer (3D series with temporal dimension, for example: Cardiac-CT) and 5D Viewer (3D series with temporal and functional dimensions, for example: Cardiac-PET-CT). The 3D Viewer offers all modern rendering modes: Multiplanar Reconstruction (MPR), Surface Rendering, Volume Rendering and Maximum Intensity Projection (MIP). All these modes support 4D data and are able to produce image fusion between two different series (for example: PET-CT).

OsiriX is at the same time a DICOM PACS workstation for imaging and an image processing software for medical research (radiology and nuclear imaging), functional imaging, 3D imaging, confocal microscopy and molecular imaging.

OsiriX supports a complete plug-in architecture that allows you to expand the capabilities of OsiriX for your personal needs! This plug-in architecture gives you access to the powerfull Cocoa framework with an easy object-oriented and dynamic language: Objective-C.

DICOM File Support Features

- Read and display all DICOM Files (mono-frame, multi-frames)
- Read and display the new MRI/CT multi-frame format (5200 group)
- JPEG Lossy, JPEG Lossless, JPEG2000, RLE
- Monochrome1, Monochrome2, RGB, YBR, Planar, Palettes
- Support custom (non-square) Pixel Aspect Ratio
- 8, 12, 16, 32 bits
- Write 'SC' (Secondary Capture) DICOM Files from any 2D/3D reconstructions
- Read and display all DICOM Meta-Data
- Read and write DICOM CD/DVD (DICOMDIR support)
- Export DICOM Files to TIFF, JPEG, Quicktime, RAW, DICOM, PACS

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