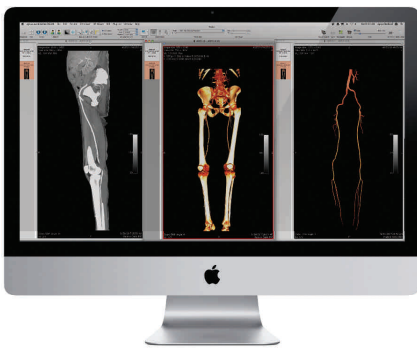# FDA CLEARED, HIGH PERFORMANCE, BEST VALUE

aycan workstation

A Mac-based multi-modality workstation for post-processing and primary diagnosis

Today's increasing volume of image data requires high-performance workstations that allow multi-planar imaging and manipulation—introducing aycan workstation, an advanced image-processing tool and DICOM PACS workstation for conventional, multi-slice and other image reading. With the most robust feature set on the market, the FDA cleared aycan workstation offers high performance at a great value.

FDA clearance, integration, service, concurrent licensing and other advantages

aycan workstation provides numerous advantages over open source and other commercial versions of OsiriX including FDA 510(k) clearance, which ensures full conformity with existing regulations. And by following ISO 9001 and 13485 standards, this re-engineered software and all of its certified plug-ins are of the highest quality. With aycan workstation, you also get a detailed user manual, and optional concurrent licensing. Plus, only aycan offers training and integration services, and immediate, live, customer support. When you consider all the benefits and cost savings from these added features and services, you'll agree aycan workstation provides the best overall value.

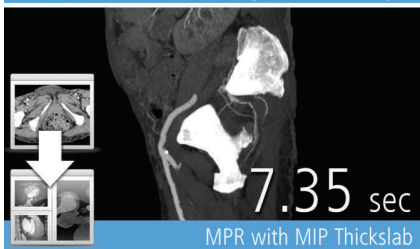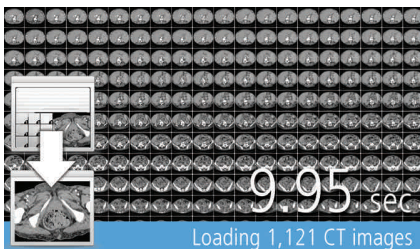### Vendor neutral DICOM system for easy integration, expansion, and stability

Fully compliant with DICOM 3.0 standards, aycan workstation can easily integrate into any DICOM workflow, or stand-alone. Either way, its complete plug-in architecture allows for easy expansion of capabilities. In fact, aycan continually develops certified clinical and workflow plug-ins to further enhance the workstation's possibilities. And because aycan workstation is built on the Macintosh operating system, everything runs on an extremely stable platform.

2, 3, 4 and 5D capabilities make processing and diagnosis easy

aycan workstation's unique design for navigation and visualization of multi-modality and multi-dimensional images makes post-processing and primary diagnosis easy. The 3D Viewer allows for all current rendering modes (including MPR and MIP), and the 4 and 5D image manipulation and modeling capability allow temporal and functional dimensions to be added. aycan workstation also enables image fusion between two different series.

Ultra fast system that's easy to use

Extremely fast image upload and processing times create a real-time workflow and eliminate the need for time-consuming pre-processing. You'll also pick up speed with an easy to use interactive user-interface, and a CD import function that automatically extracts and directly imports DICOM information into the aycan workstation database. This capability also prevents pre-loaded viewers from running, which means only one workstation is needed for viewing. And, burning CDs is easy—you can anonymize studies, add HTML/QuickTime images and associated reports, and include a DICOM viewer for non-Mac workstation viewing.

9.95 sec
Loading 1,121 CT images

7.35 sec
MPR with MIP Thickslab

7.95 sec
3D Volume Rendering

Single platform for all types of medical imaging

With tools for general diagnostic reading and advanced post-processing, plus certified plug-ins, aycan workstation is the perfect solution wherever there is demand for fast and easy access to medical images.

General diagnostic tools

aycan workstation has all the standard tools for image manipulation as well as very fast loading-times, ensuring an efficient and smooth workflow. Key tools and functions for general diagnostic use include:

» Comparison with Priors
» ROIs: Polygon, Circle, Pencil, Rectangles, Point, etc.
» WW/WL, Rotate, Mirror, Zoom, Pan

Advanced post-processing tools

Easily manipulate the image stack and provide realistic illustrations for your referring physicians and patients with advanced post-processing tools that include:

» 4D & 5D Viewers
» Bone Removal
» Image Fusion
» Scissors
» Segmentation
» MIP, MinIP, 3D Volume Rendering
» Multi Planar Reconstruction (Orthogonal, 3D, Curved) with Thick Slab

Certified plug-ins

aycan continually develops clinical and workflow plug-ins to further enhance the workstation's possibilities. Additionally aycan cooperates with other plug-in development companies to provide tested and certified solutions. A full list of plug-ins with FDA clearance and CE Marking are listed on the back page and under each of the following sections as appropriate.

Dental medicine

With aycan workstation, dentists and orthodontists can reformat CT and MRI studies to provide a clear picture for their patients, e.g., measuring and illustrating anatomic details of the oral cavity. Key tools and functions for dental medicine include:

» 3D Volume Rendering
» 3D Double Oblique MPR
» Comparison with Priors
» 3D Curved MPR
» Image Fusion
» Volume ROI's

Mammography

Advanced hanging protocols, optimized for mammography workflow, ensure a fast and consistent reading of studies. Key tools for mammography include:

» 5-MP Monitor Support
» 11-bit Monitor Support Plug-in
» Advanced Hanging Protocols
» Manual LUT Setup (e.g. Sigmoid)

Nuclear medicine

aycan workstation handles the drastically increasing number of images produced in nuclear medicine in a fast and reliable way, offering various post-processing tools for display such as:

» 5D Viewer
» Image Fusion for PET-CT and PET-MRI with FusionSync
» Image Recalculation tool, e.g., for SUV-Calculation

Oncology

With aycan workstation, oncologists can easily read images from various modalities and export key images, including calculations, and compare them with priors. Key aycan workstation tools for oncology include:

» ayRecist plug-in
» Comparison with Priors
» Image Fusion for PET-CT and PET-MRI
» ROI Measurements
» Side-By-Side Comparison
» Volume ROIs

Teleradiology/home office

With aycan workstation, working from home or any remote location is easy. Using the aycan mobile iPad app for aycan workstation, just transfer images from the aycan workstation database via "drag & drop" to your iPad. You can also send images to another workstation or DICOM node using aycan wrkstation. Intuitive usability and the following workstation tools and features add to easy, fast and secure mobile imaging.

» Secure and encrypted transmission and storage of images
» CD Importer

Try aycan workstation for free!
1-Year free service and upgrades with purchase

To see the benefits of aycan workstation for yourself, go to www.aycan.com/demo and download a free 30-day trial version. Should you decide to purchase aycan workstation, your use won't be interrupted while we immediately send you your user manual and software dongle. With purchase, you'll also receive one full year of free service and upgrades.

Vascular surgery

For vascular surgeons, aycan workstation's Vessel Analysis tool can be used to provide center lines for vessel assessment and 3D Volume Rendering capabilities allow a better understanding of the anatomy. This special plug-in supports EVAR-planning and AAA measurement. Key tools for vascular surgery include:

» Segmentation of CTA vessels
» Center lines for Curved MPR
» 3D Double Oblique MPR
» 3D MIP and Curved MPR
» Vessel Analysis plug-in

Others

aycan workstation provides all the tools needed for DICOM viewing for these and many other types of medical imaging. Contact us to see the possibilities for your area.

» Angiography
» Neuroradiology
» Pathology
» Surgery
» Veterinary…and many more

Immediate, live, customer service and support

As part of our commitment to achieving 100% customer satisfaction, aycan offers customers immediate live remote service and support. A dedicated and qualified technical team is there to help resolve any issues that may arise with an aycan solution. This includes working with other third party vendors as necessary.

Key features and functions

Image manipulation

» 3D Volume Rendering
» 4D Viewer, e.g., for Cardiac-CT and other Temporal Series
» 5D Viewer, e.g., for Cardiac-PET-CT and other Temporal Series
» Image Fusion
» 3D/MPR (Multi Planar Reconstruction) with Thick Slab
» Curved and Orthogonal MPR
» MIP (Maximum Intensity Projection)
» MinIP (Minimum Intensity Projection)
» DSA (Digital Subtraction Angiography)
» Segmentation
» Bone Removal Tool
» WW/WL
» Rotate, Mirror, Zoom, Pan
» Overlay Switch On or Off
» Length, Angle and Density
» ROIs: Polygons, Circles, Pencil, Rectangles, Point, etc
» CLUT (Color Look-Up Tables)
» User-specific Filters
» Scissor Tool
» 3D Double Oblique MPR
» Image Recalculation
» Grow Region

DICOM protocols

» DICOM Storage SCU/SCP
» DICOM Query/Retrieve SCU
» DICOM Print SCU
» Import/Export Various Image Formats (DICOM, JPG, TIFF, Quicktime, RAW)

Organizational options

» Generating Study Based Reports
» Customizable Toolbars/Various Screen Layouts
» Cutlines in Topograms/Pilots/Scouts
» Series Synchronization and Stack Scrolling
» Export Data to Patients CD, including DICOMDIR
» Create Manual or Smart Albums
» One or more monitors

Additional functions

» Embedded Web Server
» Bonjour Support
» Presentation State
» 5-MP Monitor Support

FDA 510(k) clearance and CE Marking plug-ins

» 11-bit Monitor Support
» 4D ROI Statistics
» RECIST
» CD Importer
» IB Neuro
» Advanced Hanging Protocols
» DICOM Print Film Composer
» Ejection Fraction
» Image Recalculation
» FusionSync

Options

» aycan mobile iPad app (FDA 510(k) cleared)
» Concurrent License Server

Recommended hardware

laptop

» 15-inch MacBook Pro,
» 16GB RAM recommended
» 512GB PCIe-based Flash Storage
» Option: Connect MacBook Pro to EIZO monitor

desktop

» 27-inch iMac
» 32GB RAM recommended
» 1 TB hard drive

medical imaging desktop

» Mac Pro
» 32GB RAM recommended
» 512GB PCIe-based Flash Storage
» Displays: Two EIZO Monitors

Classification

USA: FDA 510(k) clearance as a class II device
Europe: CE Marking as a class IIb device

Certification

Our development processes are certified according to ISO 13485

About aycan

With a focus on vendor neutral integration and service, aycan is a worldwide provider of solutions for archiving, viewing and printing medical images and information that improve workflow efficiency and drive down costs.

Learn more at www.aycan.com

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