Adobe Medical Imaging Solutions

Realise the creative potential of Adobe Photoshop for building professional quality publications, presentations and creating clinical content

Adobe® Photoshop® is the industry standard for users working with digital imaging content. With it, millions of users worldwide each day unleash the creative potential of efficiently manipulating, enhancing, organising and sharing their digital content. Within the field of medicine, the Digital Imaging and Communications in Medicine (DICOM) 3.0 standard is utilised for the daily transmission and storage of all medical imaging data collected within the healthcare environment. From digital X-Rays, CT and MR scans to Ultrasound studies, every frame of content is captured using the ubiquitous DICOM standard. With this movement from film to digital, a great potential for the efficient incorporation of medical images into publications, teaching files and presentations can be realised through the addition of DICOM functionality to Adobe Photoshop’s broad list of comprehensive features.

Adobe Photoshop is fully DICOM compliant, meaning that it can communicate natively with MR, CT, Ultrasound and other medical scanning devices. As a DICOM compatible device itself, Photoshop can query and retrieve specific patient content directly from the Picture Archiving and Communications Systems (PACS) used by Radiologists and healthcare professionals in daily clinical workflow. New content originating within Photoshop, such as those created in Medical Photography departments can also be transmitted directly from Photoshop for incorporation into a patient’s PACS healthcare record.

Create Clinical Content

Every day patient specific surgical drawings, medical photographs, slides and microscopy data is collected within a hospital environment. Without patient demographics, the incorporation of this data into the patient record requires paper printing of the data and adding it to a physical patient folder. Now, with Adobe Photoshop, full patient demographics can be added to any digital image and transmitted to PACS or any other DICOM compliant device.

Build Professional Quality Presentations

With the DICOMaccess/Explorer plug-in, you can access a local database of patient data queried from remote DICOM devices or received directly from your medical scanners. Select a patient, study, series or individual images to import into Photoshop. Whether you want to display a montage of images or create an animation from individual files or frames, Photoshop is capable of meeting your publication and presentation needs.

“We use Adobe Photoshop every day within the Medical Photography Department of our hospital. The ability for Photoshop to interact with PACS on a DICOM network would greatly facilitate integrating medical photographs into the patient record”

Stephen Moore, BSc, MIMI, RMIP Manager, Department of Medical Photography, Gloucestershire Hospitals, NHS Foundation Trust
Adobe Photoshop features:

**DICOMaccess/Explorer™**
A centralised workspace for integrating Photoshop into your enterprise’s DICOM environment

**Clinical Context Wizard™** for saving Photoshop files as DICOM
Add required patient demographics to make any image file DICOM compliant

**Template driven image import**
Create montages of your data with templated layout, gradient backgrounds and drop shadows

**Multi-layer animation image import**
Turn single frame MR or CT data and multi-frame Ultrasound files into production quality cinés

**DICOM query/retrieve images from any DICOM compliant device**
Act as a full DICOM node within your hospital, querying and retrieving images from your PACS

**DICOM 3.0 Part 10 CD Access**
Examine a DICOM CD for a single image of interest or load entire CD's of data locally

**Send and receive DICOM files over your hospital network**
Receive DICOM files directly from PACS or create new content and send it to PACS

**Anti-aliased patient information overlays on each image cell**
With sophisticated patient demographic data overlays, identify each image of your presentation

**Anonymisation of patient information for teaching files**
For teaching purposes show only de-identified information

**Create Flash SWF files for playback on the web or in Adobe Connect™**
Unleash the power of Flash animations with your dynamic DICOM medical imaging data

**Easily work with large numbers of DICOM images**
Import from individual to 100s of images, automatically spanning additional windows as needed

**Maintain a local database of all your DICOM teaching files**
No more stacks of X-Rays on your desk, maintain a local searchable database of your teaching assets

### FOR MORE INFORMATION
For more information about Adobe healthcare solutions, visit www.adobe.co.uk/nhs, call 08700 810280 or email enterprise@adobe.co.uk

Adobe Systems Europe
3 Roundwood Avenue
Stockley Park, Uxbridge UB11 1AY UK
www.adobe.co.uk

Adobe, the Adobe logo, Acrobat, Adobe LiveCycle and Reader are either registered trademarks or trademarks of Adobe Systems Incorporated in the United States and/or other countries. All other trademarks are the property of their respective owners. DesAcc, DICOMaccess and Clinical Context Wizard are either registered trademarks or trademarks of DesAcc, Inc.

© 2007 Adobe Systems Incorporated. All rights reserved.

Printed in the UK 0000000 3/07

---

**BENEFITS FOR HEALTH IMAGING PROFESSIONALS:**
- Reduce the time to create publication quality graphics
- Generate sophisticated presentations effortlessly
- Utilise the power of Photoshop with your DICOM data
- Create static and dynamic medical teaching content
- Interact directly with PACS over your DICOM network
- Add new DICOM content to your PACS

**BENEFITS FOR ADVERTISERS AND PUBLISHERS:**
- Create press-ready graphic content
- Utilise the DICOM CD's generated by medical devices
- Work with the original full resolution image data

---

Adobe Photoshop has long been an invaluable resource for the capture, manipulation, enhancement and organisation of digital imaging data. By adding DICOM network functionality, CD access, and DICOM file reading and writing capabilities, Adobe Photoshop becomes a fully DICOM compliant component of your institution’s healthcare network. Whether you are creating content for publications, presentations or adding to PACS, Adobe Photoshop unleashes your creative potential.